



Syllabus -XII Session 2018-19

SCHEME OF STUDIES FOR CLASS XII (SENIOR SECONDARY)

COMPULSORY SUBJECTS:

Every candidate shall offer the following subjects:

- 1. General English
- 2. General Punjabi

Or

Punjab History and Culture

- 3. Environmental Education (Grading Subject)
- 4. Computer Science (Grading Subject)
- 5. ELECTIVE SUBJECTS

In addition to the compulsory subjects every candidate shall offer any of the following groups:

Group I Humanities

Group II Science

Group III Commerce

Group IV Agriculture

(I) HUMANITIES GROUP

Every candidate shall offer any three elective subjects from the following:

- 1.Language (anyone)
 - (i) Punjabi (Elective)\
 - (ii) Hindi
 - (iii)English(Elective)
 - (iv) Urdu
- 2. Classical/Foreign Language (anyone)
 - (i) Sanskrit
 - (ii) Arabic

OR

- (iii)French
- (iv) German
- 3. History
- 4. Economics
- 5. Mathematics
- 6. Business Organisation and Management
- 7. Book -Keeping and Accountancy
- 8. Political Science
- 9. Sociology
- 10. Public Administration
- 11. Philosophy
- 12. Education
- 13. Religion
- 14. Music(Vocal)
- 15. Gurmat Sangeet
- 16. Music (Instrumental)
- 17. Dance (Tabla)
- 18. Dance
- 19. Philosophy

- 20. Geography
- 21. Defence Studies
- 22. Psychology
- 23. Home Science
- 24. Modeling and Sculpture
- 25. Geometrical Perspective and Architectural Drawing
- 26. Commercial Art
- 27. Drawing and Painting
- 28. Computer Application
- 29. History and Appreciation of Art
- 30. Physical Education and Sport
- 31. Rural Development and Environment
- 32. Media Studies

(II) SCIENCE GROUP

Every candidate shall offer the following subjects:

- 1. Physics
- 2. Chemistry
- 3. Biology

Or

Mathematics

A candidate can offer an additional subject out of the following:

- (i) Geography
- (ii) Home Science
- (iii) Agriculture
- (iv) Biology

or

Mathematics

- (v) Computer Application
- (vi) Economics

(III) COMMERCE GROUP

All four subjects are compulsory

- 1. Business Studies-II
- 2. Accountancy II
- 3. Business Economics & Quantitative Methods-II
- 4. Fundamentals of E-Business

A candidate can also offer an additional subject out of the following:

- (a) Computer Application
- (b) Mathematics

(IV) AGRICULTURE GROUP

- 1. Agriculture
- 2. & 3. Any two of the following:
 - (i) Physics
 - (ii) Chemistry
 - (iii) Economics
 - (iv) Rural Development & Environment
 - (v) Geography

A candidate can offer an additional subject out of the following:

- (a) Mathematics
- (b) Computer Application

Note:- The Syllabi in the subjects of Physics, Chemistry and Computer Application will be same as prescribed in the Science Group and that of Geography, Mathematics, Economics and Rural Development & Environment will be the same as in the Humanities Group.

Note:-1 A candidate can offer computer application as an additional subjects also. The syllabus of computer application will be the same as prescribed in Science Group.

(A) SCHEME OF STUDIES (ACADEMIC STREAM) FOR Senior Secondary (12th Class) Examination

(a) Compulsory Subjects: Every candidate shall offer the following subjects:

Sr.	Subject	Th		Prac		CCE		Total	Min
No.		Max/	Min	Max	x/Min	Max	/Min	Marks	Pass Marks
1.	General English	65	22			10	03	75	25
2.	General Punjabi Or Punjab History and Culture	65	22			10	03	75	25
3.	Environment Education	45	15			05	02	50	17
4.	Computer Science	50	17	40	13	10	03	100	33

*Important Note: Every candidate shall offer 'Environment Education and Computer Science' as compulsory subjects. Examination of these subjects will be conducted externally at the Board level. Evaluation also shall be done at Board level and result in the form of Grades as well as marks will be reflected on the Certificate.

- **Note**: 1. A candidate who has passed the Matriculation examination from a Board other than the Punjab School Education Board can have Punjab History and Culture in lieu of the Compulsory Punjabi Subject in the 11th/12th classes. Such students will furnish proof of not having studied Punjabi at the Matric level.
 - 2. A candidate who has passed Matriculation examination from the Punjab School Education Board with 'Punjab History and Culture' as a subject can opt for Punjab History and Culture in lieu of compulsory Punjabi in the 11th and 12th classes.
- (b) Elective Subjects:

In addition to the compulsory subjects every candidate shall offer any of the following groups:

Group I Humanities
Group II Science
Group III Commerce
Group IV Agriculture

(c) Additional Subjects:

In addition to three elective subjects offered by a candidate out of the group (only in case of Humanities, Science and Agriculture groups) a student may offer one additional subject from the same group.

HUMANITIES GROUP

Every candidate shall offer any three elective subjects from the following:

Sr. No.	Subject	7	Th Prac		rac	C	CE	Total Marks	Min Pass
		Max	/Min	Max	/Min	Max/Min			Marks
1.	Language (anyone)								
i.	Punjabi (Elective)	90	30			10	03	100	33
ii.	Hindi	90	30			10	03	100	33
iii.	English(Elective)	90	30			10	03	100	33
iv.	Urdu	90	30			10	03	100	33
2.	Classical/Foreign Language								
	(anyone)								
i.	Sanskrit Arabic	90	30			10	03	100	33
ii.	Alabic	90	30			10	03	100	33
	OR								
iv.	French	70	23	20	07	10	03	100	33
v.	German	70	23	20	07	10	03	100	33
3.	History	90	30			10	03	100	33
4.	Economics	90	30			10	03	100	33
5.	Mathematics	90	30			10	03	100	33
6.	Business Organisation & Management	90	30			10	03	100	33
7.	Book Keeping and Accountancy	90	30			10	03	100	33
8.	Political Science	90	30			10	03	100	33
9.	Sociology	90	30			10	03	100	33
10.	Public Administration	90	30			10	03	100	33
11.	Philosophy	90	30			10	03	100	33
12.	Education	90	30			10	03	100	33
13.	Religion	90	30			10	03	100	33
14.	Geography	70	23	20	07	10	03	100	33
15.	Defense Studies	70	23	20	07	10	03	100	33
16.	Psychology	70	23	20	07	10	03	100	33
17.	History and Appreciation of Art	90	30			10	03	100	33
18.	Geometrical Perspective and Architectural Drawing	90	30			10	03	100	33
19.	Rural Development and Environment	90	30			10	03	100	33
21	Computer Application	60	20	30	10	10	03	100	33
22.	Agriculture	70	23	20	07	10	03	100	33
23.	Home Science	60	20	30	10	10	03	100	33
24.	Music (Vocal)	60	20	30	10	10	03	100	33
25.	Gurmat Sangeet	60	20	30	10	10	03	100	33

26.	Music (Instrumental)	60	20	30	10	10	03	100	33
27.	Music (Tabla)	60	20	30	10	10	03	100	33
28.	Music (Dance)	60	20	30	10	10	03	100	33
29.	Physical Education & Sports	50	17	40	13	10	03	100	33
30.	Drawing & Painting			90	30	10	03	100	33
31.	Commercial Art			90	30	10	03	100	33
32.	Modeling and Sculpture			90	30	10	03	100	33
33.	Media Studies	70	23	20	07	10	03	100	33

Note: (1) Candidates taking up Home Science as an elective subject may choose atleast one subject from Sociology, Psychology and Economics if they wish to seek admission to higher courses in Home Science.

- (2) The syllabus of computer application will be same as prescribed in the Science Group.
- (3) The syllabus of Agriculture will be same as prescribed in the Agriculture Group.

Imp. Note: If a candidate wants to appear in a language other than Punjabi, Hindi, English, Sanskrit, Urdu, Arabian, Persian and French, he/she shall have to take prior permission from Director Academics.

SCIENCE GROUP

Every candidate shall offer the following subjects:

Sr.	Subject	Th		Prac	Prac CCE		Total	Min Pass	
No.		Max/	Min	Max/	Min	Max/Min		Marks	Marks
1.	Physics	70	23	20	07	10	03	100	33
2.	Chemistry	70	23	20	07	10	03	100	33
3.	Biology Or	70	23	20	07	10	03	100	33
	Mathematics	90	30			10	03	100	33
A ca	ndidate can offer an additi	onal su	bject o	ut of th	e follo	wing:			
II.	Geography	70	23	20	07	10	03	100	33
III.	Home Science	60	20	30	10	10	03	100	33
IV.	Agriculture	70	23	20	07	10	03	100	33
V.	Biology Or	70	23	20	07	10	03	100	33
	Mathematics	90	30			10	03	100	33
VI.	Computer Application	60	20	30	10	10	03	100	33
VIII	Economics	90	30			10	03	100	33

Note: (i) In addition to three elective subjects offered by a candidate out of Science group a candidate desiring higher studies in Ayurveda, may offer Sanskrit as an additional language. The syllabus of Sanskrit will be the same as prescribed in the Humanities Group.

- (ii) The Syllabi in subjects of Economics, Geography, Home Science and Mathematics will be the same as prescribed in the Humanities Group.
- (iii) The syllabus in the subject of Agriculture will be same as prescribed in the Agriculture Group.

COMMERCE GROUP

Sr. No.	Subject	Th		Prac		CCE	ı	Total Marks	Min Pass
		Max	/Min	Max/Min		Max/Min			Marks
1.	Business Studies-II	65	22			10	03	75	25
2.	Accountancy II	50	17	15	05	10	03	75	25
3.	Business Economics & Quantitative Methods-II	65	22			10	03	75	25
4.	Fundamentals of E-Business	50	17	15	05	10	03	75	25

A candidate can also offer an additional subject out of the following:

- (a) Computer Application
- (b) Mathematics

Note: (i) All the four Elective subjects i.e. Sr. No. 1 to 4 are compulsory.

- (ii) The syllabus of Computer Application will be the same as prescribed in Science and Humanities Group.
- (iii) The syllabus of Mathematics will be the same as prescribed in Humanties Group.

AGRICULTURE GROUP

Sr. No	Subject	Th	Th Prac CCE				Total Marks	Min Pass Marks	
		Max/	Min	Max/	Min	Max/I	Min		
1.	Agriculture	70	23	20	07	10	03	100	33
2. &	2. & 3. Any two of the following:								
(i)	Physics	70	23	20	07	10	03	100	33
(ii)	Chemistry	70	23	20	07	10	03	100	33
(iii)	Economics	90	30			10	03	100	33
(iv)	Rural Development & Environment	90	30			10	03	100	33
(v)	Geography	70	23	20	07	10	03	100	33
	A candidate can offer an additional subject out of the following:								
(a)	Mathematics	90	30			10	03	100	33
(b)	Computer Application	60	20	30	10	10	03	100	33

Note:- The Syllabi in the subjects of Physics, Chemistry and Computer Application will be same as prescribed in the Science Group and that of Geography, Mathematics, Economics and Rural Development & Environment will be the same as in the Humanities Group.

Abbreviations:

Th - Theory
Pr - Practial

CCE - Continuous Comprehensive Evaluation.

Note:- 1 A candidate can offer computer application as an additional subjects also.

The syllabus of computer application will be the same as prescribed in Science Group.

CONTENTS

Senior Secondary Level

A. Scheme of Studies

B. Compulsory subjects

- 1. General English
- 2. General Punjabi
- 3. Punjabi History and Culture
- 4. Environmental Education
- 5. Computer Science

C. Elective Subjects

(a) Humanities Group

- 6. Punjabi
- 7. Hindi
- 8. English
- 9. Urdu
- 10. Sanskrit
- 11. Arabic
- 12. French
- 13. German
- 14. History
- 15. Economics
- 16. Mathematics
- 17. Business Organisation and Management
- 18. Book -Keeping and Accountancy
- 19. Political Science
- 20. Sociology
- 21. Public Administration
- 22. Religion
- 23. Music(Vocal)
- 24. Gurmat Sangeet
- 25. Music (Instrumental)
- 26. Dance (Tabla)
- 27. Dance
- 28. Philosophy
- 29. Education
- 30. Geography
- 31. Defence Studies
- 32. Psychology
- 33. Home Science
- 34. Modeling and Sculpture
- 35. Geometrical Perspective and Architectural Drawing
- 36. Commercial Art
- 37. Drawing and Painting
- 38. History and Appreciation of Art
- 39. Physical Education and Sport
- 40. Rural Development and Environment
- 41. Media Studies

(b) Science Group

- 42. Physics
- 43. Chemistry
- 44. Biology
- 45. Computer Application

(C) Commerce Group

- 46. Business Studies II
- 47. Accountancy-II
- 48. Business Economics and Quantitative Methods –II
- 49. Fundamental of e- Business

(d) Agriculture Group

50. Agriculture

Note:

- 1. Syllabi of all the subjects of +2 are available on the Board's web site www.pseb.ac.in
- 2. Provision for opting state language as an elective subject is withdrawn
- 3. There is no change in the Scheme of Studies of +2.

CLASS-XII 1. GENERAL ENGLISH

Time: 3hrs

Theory: 65 Marks

CCE: 10 Marks

Total: 75 Marks

SYLLABUS AND THE STRUCTURE OF QUESTION PAPER

Part-I (Objective type questions)

1. It will consist of 8 objective type questions carrying one mark each. Objective type questions may include questions with one word to one sentence answer **or** fill in the blank **or** true/false **or** multiple choice type questions.

a Lessons meant for intensive study 3×1=3

b Lessons meant for extensive study 3×1=3

c Translation from Punjabi/Hindi to English 2×1=2

Part-II (Reading)

10 marks

2. Unseen passage for Comprehension. (passage of 150-200 words) followed by two M.C.Q, 2 single line comprehension questions, one question on fill in the blank (two), one question on match the words(two).

1+1+1+1+1+1=6 marks

3. Comprehension question on a given stanza from poetry (4 questions including a question on name of the poet/poem, Rhyme scheme / Simile / Metaphor / Personification/ Alliteration/ Imagery etc).(1 out of two given stanzas to be attempted)4 marks

Part-III (Writing)

14 marks

4. Précis writing (passage of about 150 words)

- 5 marks
- 5. Letter writing (only official/ business & to the Editors/ Applications (one out of two)(Letter or Application) 6 marks
- 6. Explaining Newspaper Headlines (15-20 words)/ E-mail writing

3 marks

Part-IV (Grammar and Translation)

10 marks

7. Translation from English to Punjabi/Hindi (2 sentences out of 3)

2 marks

- 8. Grammar items:
 - a. Determiners
 - b. Use of Non-finites (Infinitives, Gerunds, Participles)
 - c. Transformation of Sentences
 - d. Voice
 - e. Narration 2+2+2+1+1=8 Marks

Part-V (Literature)

25 marks

9. Central idea (1out of 2.)

3 marks

10. Three(out of four) short answer questions of about 40 to 50 words from intensive study.

3×2=6

- 11. Two (out of three) short answer questions of about 40 to 50 words from extensive study. 2×2=4
- 12. Long answer questions on theme, incident, content, character etc. from intensive study 100 to 120 words) (with internal choice).

5 marks

13. Long answer type (100 - 120 words) question from extensive study on Character/incident/theme etc (with internal choice). 5 marks

SYLLABUS

Section A (Lessons for Intensive study)

1.	Hassan's Attendance Problem	Sudha Murthy			
2.	The March King	Katherine Little Bakeless			
3.	Thinking Out of the Box: Lateral Thinking	(Adapted from the article			
		from Internet)			
4.	Robots and People	Isaac Asimov			
5.	On Giving Advice	Joseph Addison			
6.	On Saying 'Please'	A. G. Gardiner			
7.	The Story of My Life	Helen Keller			
8.	Two Gentlemen of Verona	A. J. Cronin			
9.	In Celebration of Being Alive	Dr. Christian Barnard			
10.	Gadari Babas in Kalapani Jail	Dr. Harish Puri			

Section B (Poetry)

1. Prayer of the Woods	Anonymous
2. On Friendship	Khalil Gibran
3. The Echoing Green	William Blake
4. Once upon a Time	Gabriel Okara
5. Cheerfulness Taught by Reason	Elizabeth Barret Browning
6. Father Returning Home	Dilip Chitre
7. The Road Not Taken	Robert Frost
8. On His Blindness	John Milton
Section C (Lessons for Extensive study)	

Section C (Lessons for Extensive study)

1.	The School for Sympathy	E. V. Lucas
2.	A Chamelon	Anton Chekhov
3.	Bholi	K. A. Abbas
4.	The Gold Frame	R. K. Luxman
5.	The Barber's Trade Union	Mulk Raj Anand
6.	The Bull beneath the Earth	K. S. Virk

Section D (Grammar and Composition)

Grammar

- 1. Determiners
- 2. Use of Non-finites (Infinitives, Gerunds, Participles)

- 3. Transformation of Sentences
- 4. Voice
- 5. Narration

Composition

- 1. Précis writing
- 2. Letter writing (Official/Business/To Editors)
- 3. Applications
- 4. Explaining Newspaper Headlines
- 5. E-Mail writing

Translation from English to Hindi/Punjabi and Translation form Hindi/ Punjabi to English.

(From Chapter 18 The Art of Translation given in the book English Grammar And Composition for XI and XII)

FINAL

THE ART OF TRANSLATION

Learning After the completion of this chapter, the learner will be able to:

- * use English language as a means of communication in bilingual method.
- * learn correct structural formation of sentences in English .

A. Affirmative Sentences

- 1. ਉਹ ਮੇਰਾ ਮਿੱਤਰ ਹੈ। वह मेरा दोस्त है। He is my friend.
- 2. भैं ਇੱਕ ਖਿਡਾਰੀ ਹਾਂ। मैं एक खिलाड़ी हूँ। I am a player.
- 3. ਤੁਸੀਂ ਠੀਕ ਹੋ। आप ਠੀक हो।
- You are right.
- 4. ਉਹ ਚਲਾਕ ਸਨ। वे चालाक थे। They were clever.
- 5. ਅਮਿਤ ਮੇਰਾ ਵਿਦਿਆਰਥੀ ਸੀ। अमित मेरा विद्यार्थी था। Amit was my student.

B. Negative Sentences

- 6 ਉਹ ਲੇਖਕ ਨਹੀਂ ਹੈ। वह लेखक नहीं है। He is not a writer.
- 7. ਸਾਨੂੰ ਜਲਦੀ ਨਹੀਂ ਹੈ। हमें जल्दी नहीं है। We are not in a hurry.
- 8. ਮੈਂ ਨੇਤਾ ਨਹੀਂ ਹਾਂ। ਸੈਂ ਜੇਗ ਜहੀਂ हूँ। I am not a leader.
- 9. भैं घेष्टीभार तर्जी मी। मैं वेईमान नहीं था। I was not dishonest.
- 10. घॅचे ਦੁਖੀ ਨਹੀਂ ਸਨ। बच्चे दुःखी नहीं थे। Children were not unhappy.

C. Interrogative Sentences

- 11. ਕੀ ਉਹ ਤੁਹਾਡਾ ਮਿੱਤਰ ਹੈ ? क्या वह आपका दोस्त है? Is he your friend?
- 12. वी प्रभां वंसुप्त ਹੈ ? क्या शमां कंजूस है? Is Shama a miser?
- 13. ਕੀ ਮਨਜੀਤ ਇਮਾਨਦਾਰ ਹੈ ? क्या मनजीत ईमानदार है? Is Manjit honest?
- 14. वी उुमीं मਹੀ मी ? क्या आप सही हो? Were you right?
- 15. वी ਲੜਕੇ ਖੁਸ਼ ਸਨ ? क्या लड़के खुश थे? Were the boys happy?

EXERCISE FOR PRACTICE

16. ਉਹ ਭੁੱਖਾ ਹੈ।

वह भूखा है।

17. ਇਮਾਨਦਾਰੀ ਸਭ ਤੋਂ ਉੱਤਮ ਨੀਤੀ ਹੈ।

18. ਮੈਂ ਕਵੀ ਹਾਂ।

19. ਸਾਨੂੰ ਰੋਜ਼ ਸੈਰ ਕਰਨੀ ਚਾਹੀਦੀ ਹੈ।

20. ਉਹ ਭ੍ਰਿਸ਼ਟ ਨਹੀਂ ਸਨ।

21. ਇਹ ਮਕਾਨ ਵਿਕਾਊ ਨਹੀਂ ਹੈ।

22. ਰਾਜ ਕਿਸਾਨ ਨਹੀਂ ਸੀ।

23. ਕੀ ਦਸ ਵੱਜੇ ਹਨ ?

24. ਕੀ ਤੁਹਾਡੇ ਪਿਤਾ ਜੀ ਬਹੁਤ ਅਮੀਰ ਸਨ ?

25. ਕੀ ਇਹ ਆਮ-ਰਸਤਾ ਹੈ ?

ईमानदारी सबसे उत्तम नीति है।

मैं कवि हूँ।

हमें रोज़ सैर करनी चाहिए।

वे भ्रष्ट नहीं थे।

यह मकान बिकाऊ नहीं है।

राज किसान नहीं था।

क्या दस बजे हैं?

क्या आपके पिता जी बहुत अमीर थे?

क्या यह आम रास्ता है?

I. Present Indefinite Tense

A. Affirmative Sentences

26. ਵਿਦਿਆਰਥੀ ਹਰ ਰੋਜ਼ ਮੈਦਾਨ ਵਿਚ ਖੇਡਦੇ ਹਨ। The students play in the ground everyday. विद्यार्थी हर रोज़ मैदान में खेलते हैं।

27. ਮੈਂ ਆਪਣੇ ਮਾਤਾ-ਪਿਤਾ ਦਾ ਦਿਲੋਂ ਸਤਿਕਾਰ ਕਰਦਾ ਹਾਂ। I respect my parents from the core of my heart. मैं अपने माता-पिता का दिल से सम्मान करता हूँ।

28. ਸਤਜੋਤ ਡੀ.ਏ.ਵੀ. ਕਾਲਜ ਜਲੰਧਰ ਵਿਖੇ ਪੜ੍ਹਦਾ ਹੈ। सतजोत डी.ए.वी. कॉलेज जालन्थर में पढ़ता है। Satjot studies in D.A.V. College, Jalandhar.

29. ਪ੍ਰਿੰਸੀਪਲ ਅੱਧੀ ਛੁੱਟੀ ਦੇ ਸਮੇਂ ਸਕੂਲ ਦਾ ਚੱਕਰ ਲਗਾਉਂਦਾ ਹੈ। प्रिंसिपल आधी छुट्टी के समय स्कूल का चक्कर लगाता है। The Principal takes a round of the school in the recess.

30. ਅਸੀਂ ਸੜਕ ਦੇ ਨਿਯਮਾਂ ਦਾ ਪਾਲਣ ਕਰਦੇ ਹਾਂ। हम सड़क के नियम का पालन करते हैं। We obey the traffic rules.

B. Negative Sentences

31. ਸੀਤਾ ਆਪਣੇ ਭਰਾ ਨਾਲ ਬਾਜ਼ਾਰ ਨਹੀਂ ਜਾਂਦੀ ਹੈ। सीता अपने भाई के साथ बाज़ार नहीं जाती है। Sita does not go to the market with her brother.

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English Grammar and Composition

32. ਤੁਸੀਂ ਮੈਨੂੰ ਪਸੰਦ ਨਹੀਂ ਕਰਦੇ ਹੋ। ਰੂਸ ਸੂझੇ पसन्द नहीं करते हो। You don't like me.

33. ਅੱਜ-ਕੱਲ੍ਹ ਵਿਦਿਆਰਥੀ ਪੜ੍ਹਾਈ ਤੋਂ ਜੀ ਨਹੀਂ ਚਰਾਉਂਦੇ ਹਨ। आजकल विद्यार्थी पढ़ाई से जी नहीं चुराते हैं। The students do not shirk studies these days.

34. ਉਹ ਮੇਰੇ ਵੱਲ ਬਿਲਕੁਲ ਧਿਆਨ ਨਹੀਂ ਦਿੰਦੀ ਹੈ। वह मेरी ओर बिल्कुल ध्यान नहीं देती है। She does not pay any attention to me.

35. ਉਹ ਆਟਾ ਗੁੰਨ੍ਹਣਾ ਨਹੀਂ ਜਾਣਦਾ ਹੈ। ਕੁਛ आਟਾ ਸੁੱਖਜਾ ਜੁਝੀ ਯਾਜਗ है। He does not know how to knead flour.

C. Interrogative Sentences

36. ਕੀ ਤੁਸੀਂ ਕਿਰਾਏ ਦੇ ਮਕਾਨ ਵਿੱਚ ਰਹਿੰਦੇ ਹੋ ? ਕਾਗ ਆਪ किराये के मकान में रहते हैं? Do you live in a rented house?

37. ਕੀ ਅਧਿਆਪਕ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਜ਼ਾ ਦਿੰਦਾ ਹੈ ? क्या अध्यापक विद्यार्थी को सज़ा देता है? Does the teacher punish the students?

38. ਕੀ ਉਹ ਸਵੈਟਰ ਨਹੀਂ ਬੁਣਦੀ ਹੈ ? क्या वह स्वैटर नहीं बुनती है? Does she not knit sweater?

39. ਕੀ ਅਸੀਂ ਸ਼ਾਮ ਨੂੰ ਖੇਡਣ ਜਾਂਦੇ ਹਾਂ ? क्या हम शाम को खेलने जाते हैं? Do we go to play in the evening?

40. ਕੀ ਦਾਦਾ ਜੀ ਰੋਜ਼ ਮੰਦਿਰ ਜਾਂਦੇ ਹਨ ? ਕਧਾ दादा जी रोज़ मन्दिर जाते हैं? Does grandfather go to temple everyday?

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II. Past Indefinite Tense

A. Affirmative Sentences

- 41. भैं पवमें ठर्हीं वान धवीची। मैंने परसों नयी कार खरीदी। I bought a new car the day before yesterday.
- 42. ਉਹ ਆਪਣਾ ਪਰਸ ਘਰ ਭੁੱਲ ਗਈ। वह अपना पर्स घर भूल गयी। She forgot her purse at home.
- 43. ਤੁਸੀਂ ਮੇਰੇ ਦੋਸਤਾਂ ਸਾਹਮਣੇ ਮੈਨੂੰ ਅਪਮਾਨਤ ਕੀਤਾ। ਰੂਸਜੇ ਸੇਵੇ ਵੇਸ਼ਗੋਂ के सामने मुझे अपमानित किया। You insulted me in the presence of my friends.
- 44. ਰਾਜੀਵ ਨੇ ਬਹੁਤ ਸੁੰਦਰ ਤਸਵੀਰ ਖਿੱਚੀ। राजीव ने बहुत सुन्दर तस्वीर खींची। Rajiv clicked a beautiful photograph.
- 45. ਜਾਸੂਸ ਨੇ ਆਪਣੇ ਦੇਸ਼ ਨਾਲ ਗੱਦਾਰੀ ਕੀਤੀ। जासूस ने अपने देश के साथ गद्दारी की। The spy betrayed his country.
- 46. ਉਸਨੇ ਮੈਨੂੰ ਰਸੀਦ ਫੜਾ ਦਿੱਤੀ। ਤसने मुझे रसीद दे दी। She/He handed over the receipt to me.

B. Negative Sentences

- 47. ਚੌਂਕੀਦਾਰ ਨੇ ਦਰਵਾਜ਼ੇ ਦੀ ਕੁੰਡੀ ਨਹੀਂ ਲਗਾਈ। चौकीदार ने दरवाज़े की कुंडी नहीं लागायी। The watchman did not bolt the door.
- 48. ਅਧਿਆਪਕ ਨੇ ਟੈਸਟ ਨਹੀਂ ਲਿਆ। अध्यापक ने टेस्ट नहीं लिया। The teacher did not give the test.
- 49. ਸਾਨੂੰ ਨਿੱਘਾ ਸਵਾਗਤ ਨਹੀਂ ਮਿਲਿਆ। हमें गर्मजोशी से स्वागत नहीं मिला। We did not receive a warm welcome.
- 50. ਉਹ ਅਦਰਕ ਛਿੱਲਣਾ ਨਹੀਂ ਜਾਣਦੀ ਸੀ। वह अदरक छीलना नहीं जानती थी। She did not know how to peel ginger.

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51. ਮਾਤਾ ਜੀ ਨੇ ਚਾਦਰ ਤਹਿ ਨਹੀਂ ਕੀਤੀ। माता जी ने चादर तह नहीं की। The mother did not fold the bed sheet.

C. Interrogative Sentences

- 52. ਕੀ ਉਸਨੇ ਮੇਰਾ ਜ਼ਿਕਰ ਕੀਤਾ ? क्या उसने मेरा ज़िक्र किया? Did he talk about me?
- 53. ਕੀ ਤੁਸੀਂ ਕੱਲ੍ਹ ਉੱਥੇ ਗਏ ? ਕਥਾ ਆਧ कल वहाँ गये? Did you go there yesterday?
- 54. ਕੀ ਮੁੱਖ ਮੰਤਰੀ ਨੇ ਝੰਡਾ ਲਹਿਰਾਇਆ ? क्या मुख्यमंत्री ने झंडा लहराया? Did the Chief Minister hoist the flag?
- 55. ਕੀ ਤੁਸੀਂ ਉਸ ਤੋਂ ਜ਼ੁਰਮਾਨਾ ਨਹੀਂ ਲਿਆ ? क्या आप ने उससे जुर्माना नहीं लिया? Did you not collect fine from him?
- 56. ਕੀ ਖਾਨਸਾਮੇ ਨੇ ਖਾਣਾ ਪਰੋਸਿਆ ? क्या बावर्ची ने खाना परोसा? Did the chef serve the food?

III. Future Indefinite Tense

A. Affirmative Sentences

- 57. ਮਹਿਮਾਨ ਰੋਟੀ ਘਰ ਹੀ ਖਾਣਗੇ। अतिथि रोटी घर ही खायेंगे। The guests will take food at home only.
- 58. ਉਹ ਮੰਗਲਵਾਰ ਤੱਕ ਕੰਮ ਖ਼ਤਮ ਕਰ ਲਵੇਗਾ। वह मंगलवार तक कार्य समाप्त कर लेगा। He will complete the work by Tuesday.
- 59. ਮੇਰੇ ਪਿਤਾ ਜੀ ਮੇਰਾ ਕਰਜਾ ਚੁਕਾਉਣਗੇ। मेरे पिता जी मेरा कर्ज़ चुकायेंगे। My father will pay my debt.

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60. ਉਹ ਜ਼ਰੂਰ ਤੁਹਾਨੂੰ ਧੋਖਾ ਦੇਵੇਗੀ। वह अवश्य तुम्हें धोखा देगी। She will definitely deceive you.

61. ਪਹਿਲਵਾਨ ਕੁਸ਼ਤੀ ਜਿੱਤ ਲਵੇਗਾ। पहलवान कुश्ती जीत लेगा। The wrestler will win the fight/bout.

B. Negative Sentences

- 62. ਮੈਂ ਤੁਹਾਨੂੰ ਨਿਰਾਸ਼ ਨਹੀਂ ਕਰਾਂਗਾ। ਸੈਂ आपको निराश नहीं करूंगा। I will not disappoint you.
- 63. ਅਸੀਂ ਤੁਹਾਡੀ ਸ਼ਿਕਾਇਤ ਨਹੀਂ ਕਰਾਂਗੇ। इम आपकी शिकायत नहीं करेंगे। We won't complain against you.
- 64. ਕੰਮਵਾਲੀ ਬਰਤਨ ਸਾਫ਼ ਨਹੀਂ ਕਰੇਗੀ। ਜੈਕਿਨਾਜੀ ਕਰੰਜ साफ਼ नहीं करेगी। The maid will not wash the utensils.
- 65. ਅਸੀਂ ਆਪਣਾ ਚੌਗਿਰਦਾ ਸਾਫ਼ ਰੱਖਾਂਗੇ। ਵਸ अपना आस–पास साफ़ रखेंगे? We shall keep our surroundings clean.
- 66. ਵਿਦਿਆਰਥੀ ਆਪਣੀ ਜਮਾਤ ਵਿੱਚ ਗੰਦ ਨਹੀਂ ਪਾਉਣਗੇ। विद्यार्थी अपनी कक्षा में कूड़ा-कर्कट नहीं डालेंगे। The students will not litter the class.

C. Interrogative Sentences

- 67. ਕੀ ਤੁਸੀਂ ਕੱਲ੍ਹ ਇੰਟਰਵਿਊ ਵਿੱਚ ਹਾਜ਼ਰ ਹੋਵੋਗੇ ? ਕਧਾ आप कल साक्षात्कार में शामिल होंगे? Will you appear in the interview tomorrow?
- 68. ਕੀ ਅਸੀਂ ਇਸ ਸਾਲ ਪਹਾੜਾਂ 'ਤੇ ਜਾਵਾਂਗੇ ? क्या हम इस साल पहाड़ों पर जायेंगे? Shall we go to mountains this year?

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- 69. ਕੀ ਤੁਸੀਂ ਅੱਜ ਬਿੱਲ ਬਣਾ ਲਵੋਗੇ ? क्या आप आज बिल बनवा लोगे? Will you prepare the bill today?
- 70. ਕੀ ਉਸਨੂੰ ਕਦੇ ਬੋਲਣ ਦਾ ਤਰੀਕਾ ਆਵੇਗਾ ? क्या उसको कभी बोलने का तरीका आयेगा? Will he ever learn how to speak?
- 71. ਕੀ ਉਹ ਸਾਡੇ ਲਈ ਚਾਹ ਬਣਾਵੇਗੀ ? ਕਧਾ वह हमारे लिए चाय बनायेगी? Will she prepare tea for us?

IV. Present Continuous Tense

A. Affirmative Sentences

- 72. ਨੇਤਾ ਜੀ ਇੱਧਰ ਉੱਧਰ ਦੀਆਂ ਗੱਲਾਂ ਮਾਰ ਰਹੇ ਹਨ। ਜੇਗ जी इधर–उधर की बातें कर रहे हैं। The leader is beating about the bush.
- 73. ਉਹ ਤੌਲੀਆ ਨਿਚੋੜ ਰਹੀ ਹੈ। वह तौलिया निचोड़ रही है। She is wringing out the towel.
- 74. ਰਮੇਸ਼ ਆਪਣੇ ਕੱਲ੍ਹ ਦੇ ਇਮਤਿਹਾਨ ਦੀ ਤਿਆਰੀ ਕਰ ਰਿਹਾ ਹੈ। रमेश अपने कल होने वाली परीक्षा की तैयारी कर रहा है। Ramesh is preparing for his next day's exam.
- 75. ਅਧਿਆਪਕ ਸਾਨੂੰ ਚੰਗੇ ਕੰਮ ਕਰਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰ ਰਿਹਾ ਹੈ। अध्यापक हमें अच्छे कार्य करने हेतु प्रेरित कर रहा है। The teacher is motivating us to do good deeds.
- 76. ਪਿਤਾ ਜੀ ਕੱਪੜੇ ਇਸਤਰੀ ਕਰ ਰਹੇ ਹਨ। ਧਿਗ जੀ कपड़ों को इस्त्री कर रहे हैं। The father is ironing the clothes.

B. Negative Sentences

77. ਉਹ ਮੇਰੀ ਗੱਲ ਨਹੀਂ ਸੁਣ ਰਹੀ ਹੈ। वह मेरी बात नहीं सुन रही है। She is not listening to me.

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- 78. ਬੱਚੇ ਕਤਾਰ ਵਿੱਚ ਨਹੀਂ ਚੱਲ ਰਹੇ ਹਨ। बच्चे पंक्ति में नहीं चल रहे हैं। Children are not walking in queue.
- 79. ਮੈਂ ਤੁਹਾਡੀ ਕਾਬਲੀਅਤ 'ਤੇ ਸ਼ੱਕ ਨਹੀਂ ਕਰ ਰਿਹਾ ਹਾਂ। ਸੈਂ आपकी योग्यता पर शक नहीं कर रहा हूँ। I am not doubting your competence.
- 80. ਜੱਜ ਸਹੀ ਫ਼ੈਸਲਾ ਨਹੀਂ ਦੇ ਰਿਹਾ ਹੈ। न्यायाधीश सही निर्णय नहीं कर रहा है। The judge is not delivering the right verdict.
- 81. ਰਾਜਨੇਤਾ ਸਾਨੂੰ ਮੂਰਖ਼ ਨਹੀਂ ਬਣਾ ਰਹੇ ਹਨ। राज नेता हमें मूर्ख बना रहे हैं। The politicians are not befooling us.

C. Interrogative Sentences

- 82. ਕੀ ਤੁਸੀਂ ਮੈਨੂੰ ਨਜ਼ਰਅੰਦਾਜ਼ ਕਰ ਰਹੇ ਹੋ ? क्या तुम मेरी उपेक्षा कर रहे हो? Are you avoiding me?
- 83. ਕੀ ਅਫ਼ਸਰ ਮੁਲਾਜ਼ਿਮਾਂ ਦਾ ਸ਼ੋਸ਼ਣ ਕਰ ਰਿਹਾ ਹੈ ? क्या अधिकारी कर्मचारियों का शोषण कर रहा है? Is the officer exploiting the employees?
- 84. ਕੀ ਉਹ ਮੇਰਾ ਫ਼ੋਨ ਨਹੀਂ ਚੁੱਕ ਰਿਹਾ ਹੈ ? ਕਾ ਕੁਫ ਸੇरਾ फोन नहीं ਤੁਣਾ रहा है? Is he not receiving my call?
- 85. ਕੀ ਤੁਸੀਂ ਧੁੱਪੇ ਬੈਠੇ ਹੋ ? ਕਬਾ ਰੁਸ ਪ੍ਰਧ ਸੇਂ ਕੈਠੇ ਛੇ? Are you sitting in the sun?
- 86. ਕੀ ਉਹ ਆਪਣਾ ਸਮਾਨ ਨਾਲ ਲਿਆ ਰਿਹਾ ਹੈ ? क्या वह अपना सामान अपने साथ ला रहा है? Is he bringing his luggage along with him?

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V. Past Continuous Tense

A. Affirmative Sentences

- 87. ਉਹ ਮੇਰਾ ਮਜ਼ਾਕ ਉਡਾ ਰਿਹਾ ਸੀ। वह मेरा मज़ाक उड़ा रहा था। He was making fun of me.
- 88. ਉਹ ਸ਼ੀਸ਼ੇ ਸਾਹਮਣੇ ਆਪਣੇ ਵਾਲ ਵਾਹ ਰਹੀ ਸੀ। वह शीशे के सामने अपने बालों को कंघी कर रही थी। She was combing her hair in front of the mirror.
- 89. ਜਦੋਂ ਤੁਸੀਂ ਫ਼ੋਨ ਕੀਤਾ ਸੀ ਮੇਰੇ ਮਾਤਾ ਜੀ ਮੈਨੂੰ ਸਲਾਹ ਦੇ ਰਹੇ ਸਨ। जब आप ने फ़ोन किया था, तब मेरे माता जी मुझे सलाह दे रहे थी। My mother was giving me a piece of advice when you called me up.
- 90. ਬੱਚਾ ਪਿਤਾ ਜੀ ਨੂੰ ਮੂਰਖ਼ ਬਨਾਉਣ ਦੀ ਕੋਸ਼ਿਸ਼ ਕਰ ਰਿਹਾ ਸੀ। बच्चा पिता जी को मूर्ख बनाने की कोशिश कर रहा था। The child was trying to befool his father.

B. Negative Sentences

- 91. ਭੋਲ਼ੀ ਆਪਣੇ ਪਿਤਾ ਜੀ ਨਾਲ ਬਹਿਸ ਨਹੀਂ ਕਰ ਰਹੀ ਸੀ। भोली अपने पिता जी के साथ बहस नहीं कर रही थी। Bholi was not arguing with her father.
- 92. ਸੰਗੀਤਕਾਰ ਇੱਕ ਨਵੀਂ ਧੁਨ ਨਹੀਂ ਬਣਾ ਰਿਹਾ ਸੀ। संगीतकार एक नयी धुन की रचना नहीं कर रहा था। The musician was not composing a new tune.
- 93. ਰਾਮ ਲਾਲ ਆਪਣੀ ਧੀ ਦੀ ਚਿੰਤਾ ਨਹੀਂ ਕਰ ਰਿਹਾ ਸੀ। राम लाल अपनी बेटी की चिंता नहीं कर रहा था। Ram Lal was not worrying about his daughter.
- 94. ਬੱਚਾ ਰੋ ਨਹੀਂ ਰਿਹਾ ਸੀ। बच्चा रो नहीं रहा था। The child was not crying.
- 95. ਮੇਜ਼ਬਾਨ ਮਹਿਮਾਨ ਨੂੰ ਖਾਣਾ ਨਹੀਂ ਪਰੋਸ ਰਿਹਾ ਸੀ। ਸੇज਼ਕਾਜ ਸੇहमान को खाना नहीं परोस रहा था। The host was not serving food to the guest.

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C. Interrogative Sentences

- 96. ਕੀ ਤੁਸੀਂ ਉਸਦੇ ਬਚਾਓ ਦੀ ਕੋਸ਼ਿਸ਼ ਕਰ ਰਹੇ ਸੀ ? ਕਥਾ ਆਪ ਤੁਸਲੇ ਕਬਾਬ की कोशिश कर रहे थे? Were you trying to defend him?
- 97. ਕੀ ਪ੍ਰਿੰਸੀਪਲ ਉਸ ਸਮੇਂ ਕਾਗਜ਼ ਤਸਦੀਕ ਕਰ ਰਿਹਾ ਸੀ ? क्या प्रिंसिपल उस समय कागज़ तसदीक कर रहा था? Was the principal attesting the papers at that time?
- 98. ਕੀ ਉਸ ਸਮੇਂ ਰਮੇਸ਼ ਆਪਣੀ ਗ਼ਲਤੀ ਲਈ ਮੁਆਫ਼ੀ ਮੰਗ ਰਿਹਾ ਸੀ ? ਕਧਾ रमेश उस समय अपनी गलती हेतु माफी मांग रहा था? Was Ramesh apologizing for his mistake at that time?
- 99. ਜਦੋਂ ਮੈਂ ਉਸਨੂੰ ਬੁਲਾਇਆ ਸੀ, ਤਾਂ ਕੀ ਬੱਚਾ ਭੋਜਨ ਦਾ ਆਨੰਦ ਮਾਣ ਰਿਹਾ ਸੀ? ਯਕ ਸੈਜੇ ਤੁਸ਼ਕੀ ਭੂਗਧਾ ਘਾ, क्या तब बच्चा भोजन का आनन्द ले रहा था? Was the child relishing the food when I called him?

VI . Future Continuous Tense

A. Affirmative Sentences

- 100. ਉਹ ਅਗਲੇ ਸਾਲ ਤੋਂ ਬੈਂਕ ਵਿੱਚ ਨੌਕਰੀ ਕਰ ਰਿਹਾ ਹੋਵੇਗਾ। वह अगले साल से बैंक में नौकरी कर रहा होगा। He will be working in a bank next year.
- 101. ਅਸੀਂ ਆਪਣੇ ਇਮਤਿਹਾਨ ਦੀ ਤਿਆਰੀ ਕਰ ਰਹੇ ਹੋਵਾਂਗੇ। हम अपनी परीक्षा की तैयारी कर रहे होंगे। We shall be preparing for our examination.
- 102. ਉਸ ਸਮੇਂ ਮਾਲ਼ੀ ਬੂਟਿਆਂ ਨੂੰ ਪਾਣੀ ਦੇ ਰਿਹਾ ਹੋਵੇਗਾ। ਤस समय माली पौथों को पानी दे रहा होगा। The gardener will be watering the plants at that time.
- 103. ਮੈਂ ਜਦੋਂ ਘਰ ਪੁੱਜਾਗਾ, ਸੂਰਜ ਅਸਤ ਹੋ ਰਿਹਾ ਹੋਵੇਗਾ। जब मैं घर पहुँचूंगा, सूर्य अस्त हो रहा होगा। The sun will be setting when I reach home.

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B. Negative Sentences

- 104. ਜਦੋਂ ਤੁਸੀਂ ਉਸਦੇ ਘਰ ਜਾਉਗੇ, ਉਹ ਰਾਤ ਦਾ ਖਾਣਾ ਨਹੀਂ ਖਾ ਰਿਹਾ ਹੋਵੇਗਾ। जब आप उसके घर जाओगे, वह रात का खाना नहीं खा रहा होगा। He will not be taking dinner when you go to his house.
- 105. ਜਦੋਂ ਤੁਸੀਂ ਸਾਨੂੰ ਮਿਲਣ ਆਉਗੇ, ਅਸੀਂ ਆਰਾਮ ਨਹੀਂ ਕਰ ਰਹੇ ਹੋਵਾਂਗੇ। जब आप मुझे मिलने आओगे, हम आराम नहीं कर रहे होंगे। We shall not be resting when you visit us.
- 106. ਅਸੀਂ ਇੱਕ ਹਫ਼ਤੇ ਤਕ ਉੱਥੇ ਨਹੀਂ ਰਹਾਂਗੇ। हम एक सप्ताह तक वहाँ नहीं रहेंगे। We shall not be staying there for a week.
- 107. ਤਦ ਬਾਰਿਸ਼ ਨਹੀਂ ਹੋ ਰਹੀ ਹੋਵੇਗੀ। ਰਕ ਕਥੀ ਜਵੀਂ हो रही होगी। It will not be raining then.

C. Interrogative Sentences

- 108. ਕੀ ਤਦ ਉੱਥੇ ਮੀਂਹ ਨਹੀਂ ਪੈ ਰਿਹਾ ਹੋਵੇਗਾ ? ਕਾਰ ਕਬ ਬੜਾੱ ਬਬੀ ਜਵੀਂ हो रही होगी? Will it not be raining there then?
- 109. ਜਦੋਂ ਤੁਸੀਂ ਖੇਡ ਦੇ ਮੈਦਾਨ ਵਿਚ ਪੁੱਜੋਗੇ, ਕੀ ਵਿਦਿਆਰਥੀ ਕਤਾਰਾਂ ਵਿੱਚ ਖਲੌਤੇ ਹੋਣਗੇ ? ਯਕ ਆਪ खेल के मैदान में पहुँचोगे, क्या विद्यार्थी पंक्तियों में खड़े होंगे? Will the students be standing in the queues when you reach the playground?
- 110. ਕੀ ਸਤੰਬਰ ਵਿੱਚ ਦਰੱਖਤ ਦੇ ਪੱਤੇ ਝੜ ਰਹੇ ਹੋਣਗੇ ? ਕਾਸ਼ सितम्बर में वृक्ष के पत्ते झड़ रहे होंगे? Will the tree be shedding off its leaves in September?
- 111. ਕੀ ਕਲ ਸਵੇਰੇ ਸੱਤ ਵਜੇ ਪੁਲਿਸ ਦੀ ਪਿੱਛਾ ਕਰ ਰਹੀ ਹੋਵੇਗੀ ? क्या कल सुबह सात बजे पुलिस चोर का पीछा कर रही होगी? Will the police be chasing the thief at 7a.m. tomorrow?

The Art of Translation



VII. Present Perfect Tense

A. Affirmative Sentences

112. ਉਸ ਨੇ ਚਾਹ ਪੀ ਲਈ ਹੈ। ਤसने चाय पी ली है। He has taken tea.

113. ਤਕਨੌਲੋਜੀ ਨੇ ਬਹੁਤ ਤਰੱਕੀ ਕਰ ਲਈ ਹੈ। ਰकनीक ने बहुत उन्नति कर ली है। Technology has developed a lot.

114. ਅਸੀਂ ਆਪਣੇ ਸਕੂਲ ਵਿੱਚ ਸਾਇੰਸ ਮੇਲੇ ਦਾ ਆਯੋਜਨ ਕੀਤਾ ਹੈ। हमने अपने स्कूल में विज्ञान मेले का आयोजन किया है। We have organized a science fair in our school.

115. ਮਹਿੰਗਾਈ ਨੇ ਸਾਡੀ ਜ਼ਿੰਦਗੀ ਨੂੰ ਬਹੁਤ ਪ੍ਰਭਾਵਿਤ ਕੀਤਾ ਹੈ। ਸहंगाई ने हमारे जीवन को बहुत प्रभावित किया है। Inflation has affected our lives a lot.

116. ਉਹ ਕਾਫ਼ੀ ਸਮੇਂ ਪਹਿਲਾਂ ਇਹ ਜਗ੍ਹਾ ਛੱਡ ਚੁੱਕੇ ਹਨ। वे काफी समय पहले इस स्थान को छोड़ चुके हैं। They have left this place long ago.

B. Negative Sentences

117. ਉਸਨੇ ਰਿਸ਼ਤੇ ਤੋਂ ਨਾਂਹ ਨਹੀਂ ਕੀਤੀ ਹੈ। ਤੁਸ਼ਜੇ रिश्ते से मना नहीं किया है। She has not refused the marriage proposal.

118. ਮੈਂ ਉਸਨੂੰ ਰਾਜ਼ੀ ਕਰਨ/ਮਨਾਉਣ ਦੀ ਕੋਸ਼ਿਸ਼ ਨਹੀਂ ਕੀਤੀ ਹੈ। ਸੈਂਜੇ उसे मनाने की कोशिश नहीं की है। I have not tried to convince her.

119. ਉਸਨੇ ਨਵਾਂ ਸੰਗੀਤ ਨਹੀਂ ਸੁਣਿਆ ਹੈ। ਤਸ਼ਜੇ ਜਥਾ ਸ਼ੰगੀਰ ਜਵੀਂ ਸ਼ੁਜਾ है। He has not listened to the latest music.

120. ਤੁਹਾਡੇ ਲੜਕੇ ਨੇ ਮੇਰੇ ਨਾਲ ਚੰਗਾ ਸਲੂਕ ਨਹੀਂ ਕੀਤਾ ਹੈ। आपके लड़के ने मेरे साथ अच्छा व्यवहार नहीं किया है। Your son has not behaved well with me.

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121. ਅਸੀਂ ਆਪਣੀ ਗ਼ਲਤੀ ਦਾ ਅਹਿਸਾਸ ਨਹੀਂ ਕੀਤਾ ਹੈ। हमने अपनी गलती का अहसास नहीं किया है। We have not realized our mistake.

C. Interrogative Sentences

- 122. ਕੀ ਉਸਨੇ ਖ਼ੁਦ ਨੂੰ ਮੁਸੀਬਤ ਵਿੱਚ ਪਾ ਲਿਆ ਹੈ ? क्या उसने स्वयं को मुसीबत में डाल लिया है? Has he got himself into trouble?
- 123. ਕੀ ਉਸਨੇ ਆਪਣੀ ਸਕੂਲੀ ਸਿੱਖਿਆ ਪੂਰੀ ਕਰ ਲਈ ਹੈ ? क्या उसने अपनी स्कूल की शिक्षा पूरी कर ली है? Has he completed his schooling?
- 124. ਕੀ ਤੁਸੀਂ 12ਵੀਂ ਵਿੱਚ ਵਿਗਿਆਨ ਦੀ ਚੋਣ ਨਹੀਂ ਕੀਤੀ ? क्या आपने 12वीं में विज्ञान का चयन नहीं किया? Haven't you opted for Science stream in grade 12?
- 125. ਕੀ ਮੁੱਖ ਮਹਿਮਾਨ ਨੇ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਕਾਰਗੁਜ਼ਾਰੀ ਦੀ ਪ੍ਰਸ਼ੰਸਾ ਕੀਤੀ ਹੈ ? ਕਧਾ ਸੂख्य अतिथि ने विद्यार्थियों के प्रदर्शन की प्रशंसा की है? Has the Chief Guest applauded the performance of the students?
- 126. ਕੀ ਉਸਨੇ ਵੋਟ ਪਾ ਲਈ ਹੈ ? ਕਾਸ਼ ਤੁਸ਼ਜੇ ਕੀਟ ਭਾਰ ਵੀ ਫੈ? Has he cast his vote?

VIII. Past Perfect Tense

A. Affirmative Sentences

- 127. ਉਹ ਨਵੀਂ ਕਾਰ 2011 ਤਕ ਖਰੀਦ ਚੁੱਕਾ ਸੀ। वह नयी कार 2011 तक खरीद चुका था। He had bought a new car by 2011.
- 128. ਆਪਣੇ ਪਿਤਾ ਜੀ ਦੀ ਮੌਤ ਤੋਂ ਬਾਅਦ ਉਸਨੇ ਆਪਣਾ ਪਰਿਵਾਰਿਕ ਕਾਰੋਬਾਰ ਹੀ ਜਾਰੀ ਰੱਖਿਆ ਸੀ।

अपने पिता जी के मौत के बाद उसने अपना पारिवारिक व्यवसाय ही चालू रखा था। He had continued his family business after his father's death.

The Art of Translation

129. ਮੈਂ ਪਹਿਲਾਂ ਹੀ ਇਸ ਕਾਰਖ਼ਾਨੇ ਵਿੱਚ ਦੋ ਸਾਲ ਕੰਮ ਕਰ ਚੁੱਕਿਆ ਸੀ। ਸੈਂ पहले ही इस कारखाने में दो साल नौकरी कर चुका था। I had already worked for two years in this factory.

130. ਹੜਤਾਲ ਤੋਂ ਬਾਅਦ ਕੰਪਨੀ ਨੇ ਪਿਛਲੇ ਸਾਲ ਕਈ ਕਰਮਚਾਰੀ ਨੌਕਰੀ ਤੋਂ ਕੱਢ ਦਿੱਤੇ ਸਨ। हड़ताल के बाद कंपनी ने पिछले साल कई कर्मचारी नौकरी से निकाल दिये थे। The company had fired many employees after the strike.

B. Negative Sentences

131. ਦੋ ਵਜੇ ਤਕ ਅਧਿਆਪਕ ਨੇ ਸਾਰੇ ਉੱਤਰ ਚੈੱਕ ਨਹੀਂ ਕੀਤੇ ਸਨ। दो बजे तक अध्यापक ने सारे उत्तर चैक नहीं किये थे। The teacher had not checked all the answers by 2 p.m.

132. ਮਈ 2016 ਤਕ ਸਰਕਾਰ ਨੇ ਕੋਈ ਨੋਟਿਸ ਜਾਰੀ ਨਹੀਂ ਕੀਤਾ ਸੀ। ਸई 2016 तक सरकार ने कोई नोटिस जारी नहीं किया था। The government had not issued any notice till May 2016.

133. ਜਦੋਂ ਉਹ ਆਇਆ ਮੈਂ ਆਪਣਾ ਕੰਮ ਖ਼ਤਮ ਨਹੀਂ ਕਰ ਚੁੱਕਿਆ ਸੀ। जब वह आया तब तक मैं अपना कार्य समाप्त नहीं कर चुका था। I had not finished my work when he came.

134. ਉਹ ਬਾਰਸ਼ ਰੁੱਕਣ ਤੋਂ ਬਾਅਦ ਹੀ ਗਏ। ਕੇ ਕਥੀ ਨਕਜੇ कੇ ਕਾਫ हੀ गये। They left after the rain had stopped.

C. Interrogative Sentences

135. ਕੀ ਉਪਭੋਗਤਾ ਨੇ ਧੋਖਾ ਖਾਣ ਤੋਂ ਬਾਅਦ ਕੰਪਨੀ ਖਿਲਾਫ਼ ਕੇਸ ਦਾਇਰ ਕਰ ਦਿੱਤਾ ਸੀ ? क्या उपभोक्ता ने धोखा खाने के बाद कंपनी के खिलाफ केस दायर कर दिया था? Had the consumer filed a case against the company after he was cheated?

136. ਜਦੋਂ ਤੁਸੀਂ ਹਵਾਈ ਅੱਡਾ ਪੁੱਜੇ, ਕੀ ਹਵਾਈ ਜਹਾਜ਼ ਉਡਾਣ ਭਰ ਚੁੱਕਾ ਸੀ ? जब आप हवाई अड्डा पहुँचे, क्या हवाई जहाज़ उडान भर चुका था?। Had the flight taken off when you reached the airport?

137. नसें ਤੁਸੀਂ ਸਟੇਸ਼ਨ ਪੁੱਜੇ, ਕੀ ਰੇਲਗੱਡੀ ਆ ਗਈ ਸੀ ? जब आप स्टेशन पहुँचे, क्या रेलगाड़ी आ गयी थी? Had the train arrived when you reached the station?

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138. ਕੀ ਉਸਨੇ 2017 ਤਕ ਕਾਫ਼ੀ ਧਨ ਇਕੱਠਾ ਕਰ ਲਿਆ ਸੀ ? क्या उसने 2017 तक काफी धन इकट्ठा कर लिया था? Had he accumulated a lot of wealth by 2017?

IX. Future Perfect Tense

A. Affirmative Sentences

- 139. ਉਸਨੇ ਆਪਣਾ ਘਰ ਦਾ ਕੰਮ ਛੇ ਵਜੇ ਤਕ ਖ਼ਤਮ ਕਰ ਲਿਆ ਹੋਵੇਗਾ। ਤੁਸ਼ਜੇ अपना गृहकार्य शाम छह बजे तक समाप्त कर लिया होगा। She will have finished her homework by 6 o'clock.
- 140. ਮੈਂ ਜਦੋਂ ਸਕੂਲ ਪਹੁੰਚਾਂਗਾ, ਵਿਦਿਆਰਥੀ ਮੈਦਾਨ ਵਿੱਚ ਇਕੱਤਰ ਹੋ ਚੁੱਕੇ ਹੋਣਗੇ ? ਸੈਂ जब विद्यालय पहुँचूंगा, विद्यार्थी मैदान में एकत्रित हो चुके होंगे। The students will have gathered in the ground when I reach there.
- 141. ਤੁਹਾਡੇ ਤਿਆਰ ਹੋਣ ਤਕ, ਮੈਂ ਪੱਗ ਬੰਨ੍ਹ ਚੁੱਕਾ ਹੋਵਾਂਗਾ। आपके तैयार होने तक मैं पगड़ी बाँध चुका हूँगा। I shall have tied the turban by the time you get ready.
- 142. ਅਸੀਂ ਸੂਰਜ ਡੁੱਬਣ ਤਕ ਵਿਰੋਧੀ ਧਿਰ ਨੂੰ ਹਰਾ ਚੁੱਕੇ ਹੋਵਾਂਗੇ। हम सूरज छिपने तक विरोधी पक्ष को हरा चुके होंगे। We will have defeated the opponents by sunset.
- 143. ਅਸੀਂ ਸਾਰੇ ਮਿਲ ਕੇ ਨੌਂ ਵਜੇ ਤਕ ਜਨਮ ਦਿਨ ਮਨਾ ਚੁੱਕੇ ਹੋਵਾਂਗੇ। हम सभी मिलकर नौ बजे तक जन्मदिन मना चुके होंगे। We all shall have celebrated the birthday by 9 p.m.

B. Negative Sentences

- 144. ਪਿਤਾ ਜੀ ਪੰਜ ਵਜੇ ਤਕ ਘਰ ਨਹੀਂ ਪਹੁੰਚ ਚੁੱਕੇ ਹੋਣਗੇ। ਧਿਗ जੀ पाँच बजे तक घर नहीं पहुँच चुके होंगे। Father will not have reached home by 5 p.m.
- 145. ਗੱਡੀ ਦੇ ਆਉਣ ਤਕ ਕੁਲੀ ਸਾਰਾ ਸਾਮਾਨ ਨਹੀਂ ਲੈ ਗਿਆ ਹੋਵੇਗਾ। गाड़ी के आने तक कुली सारा सामान नहीं ले गया होगा। The porter will not have carried the entire luggage by the time the train arrives.

The Art of Translation



146. ਅਗਲੇ ਪੰਜ ਸਾਲ ਤਕ ਅਸੀਂ ਨਵੀਂ ਖੋਜ ਨਹੀਂ ਕਰ ਚੁੱਕੇ ਹੋਵਾਂਗੇ। अगले पाँच साल तक हम नयी खोज नहीं कर चुके होंगे। We shall not have made a new discovery in the next five years.

147. ਅਗਲੇ ਹਫ਼ਤੇ ਤਕ ਤੁਸੀਂ ਸਾਰੇ ਤਰੀਕੇ ਨਹੀਂ ਅਜ਼ਮਾ ਚੁੱਕੇ ਹੋਵੋਗੇ। अगले सप्ताह तक आप सारे तरीके नहीं आज़मा चुके होंगे। You will not have tried all the ways by the next week.

C. Interrogative Sentences

148. ਕੀ ਤੁਸੀਂ ਸੋਮਵਾਰ ਤਕ ਹਵਾਈ ਯਾਤਰਾ ਕਰ ਚੁੱਕੇ ਹੋਵੋਗੇ ? ਕਬਾ आप सोमवार तक हवाई यात्रा कर चुके होंगे? Will you have travelled by air by Monday?

149. ਕੀ ਮੰਤਰੀ ਜੀ ਨੇ ਅੰਤ ਵਿਚ ਚੋਣਾਂ ਭਾਰੀ ਅੰਤਰ ਨਾਲ ਜਿੱਤ ਲਈਆਂ ਹੋਣਗੀਆਂ ? ਕਥਾ ਸੰਕੀ जੀ ਜੇ ਅੰਗ मैਂ ਚੁਜਾਰ भारी अन्तर से जीत लिये होंगे? Will the minister have won the election by a big margin in the end?

150. ਕੀ ਹਵਾਈ ਜਹਾਜ਼ ਦੁਪਹਿਰ ਦੋ ਵਜੇ ਤਕ ਉੱਤਰ ਚੁੱਕਿਆ ਹੋਵੇਗਾ ? ਕਬਾ ਫ਼ਬਾई जहाज़ दोपहर दो बजे तक उत्तर चुका होगा? Will the plane have landed by 2 p.m.?

151. ਕੀ ਮਜ਼ਦੂਰ ਯੂਨੀਅਨ ਨੇ ਅਗਲੇ ਮਹੀਨੇ ਹੜਤਾਲ ਖ਼ਤਮ ਕਰ ਦਿੱਤੀ ਹੋਵੇਗੀ ? ਕਧਾ ਸਯੁद੍द संघ ਜੇ अगलੇ ਸਫੀਜੇ ਫ਼ਫ਼ਗ਼ਗ खत्म कर दी होगी? Shall the workers' union have called off the strike by the next month?

152. ਕੀ ਪੀੜਤ ਨੇ ਦਸੰਬਰ ਤਕ ਅਦਾਲਤ ਵਿੱਚ ਗੁਹਾਰ ਲਗਾਈ ਹੋਵੇਗੀ ? ਕਸ਼ਾ ਧੀਫ਼ਿਰ ਜੇ दिसम्बर तक अदालत में अपील लगायी होगी? Will the victim have appealed in the court by December?

X. Present Perfect Continuous Tense

A. Affirmative Sentences

153. ਮੈਂ ਪਿਛਲੇ 20 ਸਾਲ ਤੋਂ ਇਸ ਮਕਾਨ ਵਿੱਚ ਰਹਿ ਰਿਹਾ ਹਾਂ। I have been living in this house for last twenty years. ਸੈਂ ਧਿਲਕੇ 20 सालों से इस मकान में रह रहा हूँ।

154. ਦੋਨੋਂ ਸਹੇਲੀਆਂ ਸਵੇਰ ਤੋਂ ਹੀ ਗੱਪਾਂ ਮਾਰ ਰਹੀਆਂ ਹਨ। दोनों सहेलियाँ सुबह से ही गप्पें मार रही हैं। Both the friends have been gossiping since morning.

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155. ਦੋਨੋਂ ਪਰਿਵਾਰ ਕਾਫ਼ੀਂ ਸਮੇਂ ਤੋਂ ਇੱਕ ਦੂਸਰੇ ਨਾਲ ਲੜ ਰਹੇ ਹਨ। दोनों परिवार काफी समय से एक दूसरे से लड़ रहे हैं। Both the families have been quarrelling with each other since long.

156. ਉਹ ਕਾਫ਼ੀ ਸਮੇਂ ਤੋਂ ਇਸ ਦਿਨ ਦੀ ਤਿਆਰੀ ਕਰ ਰਿਹਾ ਹੈ। वह काफी समय से इस दिन की तैयारी कर रहा है। He has been waiting for this day since ages.

157. ਮੈਂ 2:00 ਵਜੇ ਤੋਂ ਫ਼ਿਲਮ ਦੇਖ ਰਿਹਾ ਹਾਂ। ਸੈਂ 2:00 ਕਯੇ सੇ फ़िल्म देख रहा हूँ। I have been watching the movie since 2 o'clock.

B. Negative Sentences

158. ਰਮੇਸ਼ ਕਈ ਦਿਨਾਂ ਤੋਂ ਸਕੂਲ ਨਹੀਂ ਆ ਰਿਹਾ ਹੈ। रमेश कई दिन से स्कूल नहीं आ रहा है। Ramesh has not been coming to school for many days.

159. ਉਮੀਦਵਾਰ ਪਿਛਲੇ ਹਫ਼ਤੇ ਤੋਂ ਚੋਣ ਪ੍ਰਚਾਰ ਨਹੀਂ ਕਰ ਰਿਹਾ ਹੈ। उम्मीदवार पिछले सप्ताह से चुनाव प्रचार नहीं कर रहा है। The candidate has not been canvassing since last week.

160. ਤੁਸੀਂ ਕਈ ਦਿਨਾਂ ਤੋਂ ਮੈਨੂੰ ਮਿਲਣ ਨਹੀਂ ਆਏ ਹੋ। आप कई दिनों से मुझे मिलने नहीं आए हो। You have not come to meet me for many days.

161. ਉਸਦੇ ਦਾਦੀ ਜੀ ਸਵੇਰ ਤੋਂ ਖਾਣਾ ਨਹੀਂ ਖਾ ਰਹੇ ਹਨ। ਤੁਸਲੀ ਬਾਬੀ जੀ ਸ਼ੁਕੂਫ਼ सੇ खाना नहीं खा रही हैं। Her grandmother has not been eating since morning.

162. ਬੱਚਾ ਸ਼ਾਮ ਤੋਂ ਆਪਣੇ ਮਾਤਾ ਪਿਤਾ ਜੀ ਦੀ ਗੱਲ ਨਹੀਂ ਸੁਣ ਰਿਹਾ ਹੈ। बच्चा शाम से अपने माता-पिता जी की बात नहीं सुन रहा है। The child has not been listening to his parents since evening.

C. Interrogative Sentences

163. ਕੀ ਤੁਸੀਂ 1990 ਤੋਂ ਇੱਥੇ ਕੰਮ ਕਰ ਰਹੇ ਹੋ ? ਕਬਾ ਆਪ 1990 सੇ यहाँ काम कर रहे हो? Have you been working here since 1990?

The Art of Translation



164. ਕੀ ਮੈਕੇਨਿਕ ਸਵੇਰ ਤੋਂ ਮੋਟਰ ਠੀਕ ਕਰ ਰਿਹਾ ਹੈ ?

ਕਧਾ ਸੈਕੇਜਿਕ ਸ਼ੁਵਰ सੇ ਸੀਟर ਠੀਕ ਕਰ ਰਿਹਾ ਹੈ ?

Has the mechanic been repairing the motor since morning?

165. ਕੀ ਤੁਸੀਂ ਕਈ ਮਹੀਨਿਆਂ ਤੋਂ ਪ੍ਰੀਖਿਆ ਦੀ ਤਿਆਰੀ ਕਰ ਰਹੇ ਹੋ ?

ਕਧਾ आप कई ਸਫੀਜੀਂ सੇ परीक्षा की तैयारी कर रहे हो?

Have you been preparing for exams for many months?

166. ਕੀ ਕਿਰਾਏਦਾਰ ਪਿਛਲੇ ਛੇ ਮਹੀਨਿਆਂ ਤੋਂ ਕਿਰਾਇਆ ਨਹੀਂ ਦੇ ਰਿਹਾ ਹੈ ?

ਕਧਾ किरायेदार पिछले छह महीਜੀਂ से किराया नहीं दे रहा है?

Has the tenant not been paying the rent for the last six months?

167. ਕੀ ਅਧਿਆਪਕ ਸਵੇਰ ਤੋਂ ਪੜ੍ਹਾ ਰਿਹਾ ਹੈ ?

ਕਧਾ अध्यापक सुबह से पढ़ा रहा है?

Has the teacher been teaching since morning?

XI. Past Perfect Continuous Tense

A. Affirmative Sentences

- 168. ਜਦੋਂ ਉਸਦੇ ਪਿਤਾ ਜੀ ਦੀ ਮੌਤ ਹੋ ਗਈ ਉਹ ਪਿਛਲੇ ਦਸ ਸਾਲਾਂ ਤੋਂ ਮਿਹਨਤ ਕਰ ਰਿਹਾ ਸੀ। जब उसके पिता जी की मृत्यु हो गयी, वह पिछले दस सालों से मेहनत कर रहा था। He had been working hard for the last ten years when his father died.
- 169. ਜਦੋਂ ਮੈਂ ਉਸਨੂੰ ਮਿਲਣ ਲਈ ਗਈ, ਬੱਚਾ ਸਵੇਰ ਤੋਂ ਹੀ ਰੋ ਰਿਹਾ ਸੀ। जब मैं उससे मिलने गयी, बच्चा सुबह से ही रो रहा था। The child had been crying since morning when I visited her.
- 170. ਜਦੋਂ ਮੈਂ ਘਰ ਪਹੁੰਚਿਆ ਤਾਂ ਪਿਛਲੇ ਦੋ ਘੰਟੇ ਤੋਂ ਉਹ ਮੇਰਾ ਇੰਤਜ਼ਾਰ ਕਰ ਰਹੇ ਸਨ। जब मैं घर पहुंचा तो पिछले दो घंटे से वह मेरी प्रतीक्षा कर रहे थे। They had been waiting for me for the last two hours when I reached home.
- 171. ਮੈਂ ਪਿਛਲੇ ਕਈ ਦਿਨਾਂ ਤੋਂ ਇਸ ਕਿਤਾਬ ਨੂੰ ਪੜ੍ਹ ਰਿਹਾ ਸੀ। ਸੈਂ ਧਿਲਕੇ कई दिनों से इस पुस्तक को पढ़ रहा था। I had been reading this book for last many days.
- 172. ਪ੍ਰਕਾਸ਼ ਪਿਛਲੇ ਕਈ ਸਾਲਾਂ ਤੋਂ ਟੈਨਿਸ ਖੇਡਦਾ ਰਿਹਾ ਸੀ। प्रकाश पिछले कई सालों से टैनिस खेल रहा था। Prakash had been playing tennis for last many years.

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B. Negative Sentences

173. ਮਾਲੀ ਸੋਮਵਾਰ ਤੋਂ ਪੌਦਿਆਂ ਨੂੰ ਪਾਣੀ ਨਹੀਂ ਦੇ ਰਿਹਾ ਸੀ। ਸਾलੀ सोमवार से पौधों को पानी नहीं दे रहा था। The gardener had not been watering the plants since Monday.

174. ਸਚਿਨ ਦੋ ਸਾਲਾਂ ਤੋਂ ਕ੍ਰਿਕੇਟ ਨਹੀਂ ਖੇਡ ਰਿਹਾ ਸੀ। सचिन दो सालों से क्रिकेट नहीं खेल रहा था। Sachin had not been playing cricket for two years.

175. ਰਵੀ ਪਿਛਲੇ ਦਸ ਦਿਨਾਂ ਤੋਂ ਸਕੂਲ ਨਹੀਂ ਆ ਰਿਹਾ ਸੀ। रवि पिछले दस दिनों से स्कूल नहीं आ रहा था। Ravi had not been coming to school for the last ten days.

C. Interrogative Sentences

176. ਕੀ ਤੁਸੀਂ ਇੱਥੇ ਪਿਛਲੇ ਪੰਜ ਸਾਲਾਂ ਤੋਂ ਕੰਮ ਕਰ ਰਹੇ ਸੀ ? ਕਬਾ ਆਪ ਬਛਾਂ ਖਿਲਕੇ ਧਾੱਬ सालों से काम कर रहे थे? Had you been working here for the last five years?

177. ਕੀ ਬੱਚਾ ਪਿਛਲੇ ਪੰਦਰਾਂ ਦਿਨਾਂ ਤੋਂ ਬੀਮਾਰ ਸੀ? क्या बच्चा पिछले 15 दिनों से बीमार था। Had the child been sick for the last fifteen days?

178. ਕੀ ਜਦੋਂ ਉਹ ਘਰ ਆਏ ਤਾਂ ਉਨ੍ਹਾਂ ਦੀ ਬੇਟੀ ਕੰਮ ਦੋ ਘੰਟਿਆ ਤੋਂ ਕੰਮ ਕਰ ਰਹੀ ਸੀ। ਯਕ ਕਫ ਬर आये तो क्या उनकी बेटी दो घंटों से काम कर रही थी? Had his daughter been working for two hours when he came home?

XII. Future Perfect Continuous Tense

A. Affirmative Sentences

179. ਉਸਦੇ ਪਿਤਾ ਜੀ ਸਵੇਰੇ ਦੋ ਘੰਟੇ ਤੋਂ ਬਗੀਚੇ ਵਿੱਚ ਦਰੱਖਤ ਲਗਾ ਰਹੇ ਹੋਣਗੇ। ਤੁਸਲੇ ਧਿੰਗ जੀ ਸ਼ੁਕੂਫ਼ ਵੀ ਬੰਟੀਂ सੇ ਕੁਧੀਕੇ में वृक्ष लगा रहे होंगे। His father will have been planting trees in the garden for two hours in the morning.

180. ਉਹ ਦੋ ਵਜੇ ਤੱਕ ਚਾਰ ਘੰਟੇ ਲਈ ਮੇਰੀ ਉਡੀਕ ਕਰ ਰਿਹਾ ਹੋਵੇਗਾ। वह चार घंटों से दो बजे तक मेरी प्रतीक्षा कर रहा होगा। He will have been waiting for me for four hours by 2 o'clock.

The Art of Translation



181. ਉਹ ਅਗਲੇ ਮਹੀਨੇ ਕਾਰ ਚਲਾਉਣੀ ਸਿੱਖ ਰਿਹਾ ਹੋਵੇਗਾ।

वह अगले महीने कार चलाना सीख रहा होगा। He will have been learning how to drive a car next month.

B. Negative Sentences

182. ਕੱਲ, ਇਸ ਸਮੇਂ ਨੇਤਾ ਜੀ ਲੰਮੇ ਸਮੇਂ ਤਕ ਭਾਸ਼ਣ ਨਹੀਂ ਦੇ ਰਹੇ ਹੋਣਗੇ। कल, इस समय तक नेता जी लम्बे-लम्बे भाषण नहीं दे रहे होंगे। The leader will not have been delivering the speech by this time

183. ਮੈਂ ਜਦੋਂ ਸਕੂਲ ਜਾਵਾਂਗਾ, ਮੁੰਡੇ ਫੁੱਟਬਾਲ ਨਹੀਂ ਖੇਡ ਰਹੇ ਹੋਣਗੇ। ਸੈਂ स्कूल जाऊँगा, लड़के फुटबॉल नहीं खेल रहे होंगे। When I go to school, the boys will not have been playing football.

184. ਮੈਂ ਜਦੋਂ ਘਰ ਪੁੱਜਾਗਾ ਮਾਤਾ ਜੀ ਖਾਣਾ ਨਹੀਂ ਬਣਾ ਰਹੇ ਹੋਣਗੇ। जब मैं घर पहुँचूंगा, माता जी खाना नहीं बना रही होंगी। The mother will not have been cooking when I reach home.

C. Interrogative Sentences

185. ਕੀ ਡਰਾਈਵਰ ਲਗਾਤਾਰ 15 ਦਿਨ ਤੱਕ ਕਾਰ ਚਲਾ ਰਿਹਾ ਹੋਵੇਗਾ ?

क्या ड्राइवर लगभग 15 दिनों से कार चला रहा होगा?

Will the driver have been continuously driving the car for fifteen days?

186. ਕੀ ਅਸੀਂ ਮਈ ਮਹੀਨੇ ਵਿੱਚ ਹਰ ਰੋਜ ਦੋ ਘੰਟੇ ਲਈ ਪੈਸੇ ਇਕੱਠੇ ਕਰ ਰਹੇ ਹੋਵਾਂਗੇ ?

Shall we have been collecting the money for two hours everyday in May?

क्या हम मई महीने में हर रोज़ दो घंटे पैसे इकट्ठे कर रहे होंगे?

187. ਕੀ ਜਦ ਮੈਂ ਘਰ ਵਾਪਿਸ ਆਵਾਂਗਾ ਬੱਚੇ ਸਵੇਰ ਤੋਂ ਪਤੰਗ ਉਡਾ ਰਹੇ ਹੋਣਗੇ ?

क्या जब मैं घर वापिस आऊँगा, बच्चे सुबह से पतंग उड़ा रहे होंगे? Will the children have been flying the kites since morning when I return home?

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IMPERATIVE SENTENCES

Imperative Sentences

188. Obey your teacher. ਆਪਣੇ ਅਧਿਆਪਕਾਂ ਦੀ

अपने अध्यापकों की

ਆਗਿਆ ਦਾ ਪਾਲਣ ਕਰੋ। आज्ञा का पालन करो।

189. Help the poor.

ਗਰੀਬਾਂ ਦੀ ਮਦਦ ਕਰੋ।

गरीबों की सहायता करो।

190. Post this letter.

ਇਸ ਚਿੱਠੀ ਨੂੰ ਡਾਕ ਰਾਹੀਂ ਭੇਜੋਂ इस पत्र को डाक द्वारा

भेजो।

191. Don't kill animals. ਜਾਨਵਰਾਂ ਨੂੰ ਨਾ ਮਾਰੋ।

पशुओं की हत्या न करो।

192. Never play with fire. ਅੱਗ ਨਾਲ ਨਾ ਖੇਡੋ।

अग्नि से मत खेलो।

Affirmative Sentences

193. ਪਰਮਾਤਮਾ ਉੱਪਰ ਭਰੋਸਾ ਰੱਖੋ। परमात्मा पर विश्वास रखो।

194. ਆਪਣੇ ਵੱਡਿਆਂ ਦੀ ਆਗਿਆ ਦਾ बड़ों का सत्कार करें। Obey your elders.

195. ਜੇਬ ਕਤਰਿਆਂ ਤੋਂ ਬਚੋ। जेब कतरों से बचें Beware of the pickpockets.

196. ਉਸਨੂੰ ਜਾਣ ਦਿਉ। उसे जाने दो।

Let him go.

197. नलरी वरे। जल्दी करो।

Hurry up.

Negative Sentences

198. भैਨੂੰ ਤੰਗ ਨਾ ਕਰੋ। मुझे तंग न करो।

Don't disturb me.

199. ज़ाਰੀਬ ਦਾ ਮਜ਼ਾਕ ਨਾ ਉਡਾਉ। गरीब का मज़ाक न उड़ाओ। Don't make fun of the poor.

200. ਅਫ਼ਵਾਹਾਂ ਨਾ ਫੈਲਾਉ। अफवाह न फैलाओ। Don't spread rumours.

201. विमे से सुराही ता वर्ते। किसी की सुगली न करो। Don't backbite anyone.

202. ਬਕਵਾਸ ਨਾ ਕਰੋ। ਕਾਬੰ ਜ बोलो।

Don't talk nonsense.

EXERCISES (UNSOLVED)

Exercise 1 (Unsolved)

Translate into English:

203. ਨੰਗੇ ਪੈਰ ਨਾ ਚੱਲੋਂ।

नंगे पांव न चलो।

204. ਆਪਣੀ ਸਿਹਤ ਦਾ ਧਿਆਨ ਰੱਖੋ।

अपने स्वास्थ्य का ध्यान रखो।

The Art of Translation

205, ਸਮਾਂ ਬਰਬਾਦ ਨਾ ਕਰੋ। समय बर्बाद न करो। 206. ਸਮੇਂ ਦਾ ਸਹੀ ਇਸਤੇਮਾਲ ਕਰੋ। समय का सदुपयोग करें। 207. ਖੱਬੇ ਹੱਥ ਚੱਲੋ। बायें हाथ चलें। 208. ਪੁਲਿਸ ਨੂੰ ਬੁਲਾਓ। पुलिस को बुलाओ। 209. ਅਭਿਆਸ ਕਰੋ। अभ्यास करो। 210. ਆਪਣਾ ਕੰਮ ਆਪ ਕਰੋ। अपना कार्य स्वयं करें। 211. ਆਪਣਾ ਧਿਆਨ ਰੱਖੋ। अपना ध्यान रखें। 212. ਮਿਹਨਤ ਕਰੋ। परिश्रम करें।

Exercise 2 (Unsolved)

Translate into English:

213. ਸੂਰਜ ਡੁੱਬ ਗਿਆ ਹੈ।

214. ਹਲਕੀ ਜਿਹੀ ਹਵਾ ਚਲਣੀ ਸ਼ੁਰੂ ਹੋ ਗਈ ਹੈ।

215. ਬਹੁਤ ਸਾਰੇ ਲੋਕ ਸਟੇਸ਼ਨ ਦੇ ਬਾਹਰ ਇਕੱਠੇ ਹੋ ਗਏ ਸਨ।

216. ਮੈਨੂੰ ਇਹ ਕਿਤਾਬ ਚਾਹੀਦੀ ਹੈ।

217. ਭੂਗੋਲ ਮੇਰਾ ਪਸੰਦੀਦਾ ਵਿਸ਼ਾ ਹੈ।

218. ਮੈਨੂੰ ਸਕੂਲ ਪਹੁੰਚਣ ਵਿੱਚ ਦੇਰ ਹੋ ਗਈ ਹੈ।

219. ਜਦ ਤਕ ਤੁਸੀਂ ਕਹੋਗੇ, ਉਹ ਜਾਗਦੀ ਰਹੇਗੀ ਯਿਕ तक आप कहोगे, वह जागती रहेगी।

220. ਮਾਲੀ ਪੌਦਿਆਂ ਨੂੰ ਪਾਣੀ ਦੇ ਰਿਹਾ ਸੀ। 221. ਇਹ ਬਹੁਤ ਹੀ ਦਿਲਚਸਪ ਕਹਾਣੀ ਹੈ।

222. ਉਹ ਸ਼ਾਇਦ ਅੱਜ ਆ ਜਾਵੇ।

सूरज अस्त हो गया है।

मन्द-मन्द हवा चलनी शुरू हो गई है।

बहुत सारे लोग स्टेशन के बाहर एकत्रित हो गये थे।

मुझे यह पुस्तक चाहिए। भूगोल मेरा मनपसन्द विषय है। मुझे स्कूल पहुँचने में देर हो गयी है।

माली पौधों को पानी दे रहा था । यह बहुत ही मनोरंजक कहानी है।

वह शायद आज आ जाये।

Exercise 3 (Unsolved)

Translate into English:

223. ਉਹ ਕਈ ਘੰਟੇ ਲਗਾਤਾਰ ਕੰਮ ਕਰ ਸਕਦਾ ਹੈ। वह कई घंटे लगातार कार्य कर सकता है।

224. ਰੇਖਾ ਮੇਰੀ ਮਨਭਾਉਂਦੀ ਅਭਿਨੇਤਰੀ ਹੈ। रेखा मेरी मनपसन्द अभिनेत्री है।

225. ਸਿਗਰੇਟ ਪੀਣਾ ਸਿਹਤ ਲਈ ਹਾਨੀਕਾਰਕ ਹੈ। सिगरेट पीना स्वास्थ्य के लिए हानिकारक है।

226. ਉਹ ਅਨਾਥ ਸੀ।

वह अनाथ था।



227. ਦਹੇਜ ਦੀ ਪ੍ਥਾ ਸਮਾਜ ਉੱਪਰ ਇੱਕ ਕਲੰਕ ਹੈ। दहेज प्रथा समाज पर एक कलंक है।

228. ਉਹ ਉਮਰ ਵਿੱਚ ਮੇਰੇ ਤੋਂ ਵੱਡੀ ਹੈ। ਕੁਫ਼ ਤੁਸ਼ ਸੇਂ ਸੂੜ੍ਹੇ ਕੁਫ਼ੀ ਫ਼ੈ।

229. ਦੋਨੋਂ ਭਰਾਵਾਂ ਦੀ ਆਪਸ ਵਿੱਚ ਨਹੀਂ ਬਣਦੀ। दोनों भाइयों की आपस में नहीं बनती।

230. ਹਰਿਦੁਆਰ ਭਾਰਤ ਦਾ ਸਭ ਤੋਂ ਪ੍ਰਸਿੱਧ ਤੀਰਥ ਅਸਥਾਨ ਹੈ। हरिद्वार भारत का बहुत प्रसिद्ध तीर्थ स्थान है।

231. ਡਾ. ਏ.ਪੀ.ਜੇ. ਅਬਦੁਲ ਕਲਾਮ ਇੱਕ ਵਿਸ਼ਵ ਪ੍ਰਸਿੱਧ ਵਕਤਾ ਸਨ। ਭੱ. ए.ਪੀ.जे. अब्दुल कलाम एक विश्व प्रसिद्ध वक्ता थे।

232. ਜਨਸੰਖਿਆ ਵਿੱਚ ਭਾਰਤ ਵਿਸ਼ਵ ਵਿੱਚ ਦੂਸਰੇ ਸਥਾਨ 'ਤੇ ਹੈ। जनसंख्या में भारत विश्व में दूसरे स्थान पर है।

Exercise 4 (Unsolved)

Translate into English:

233. ਉਹ ਇੱਕ ਵਧੀਆ ਕਲਾਕਾਰ ਹੈ। वह एक अच्छा कलाकार है।

234. ਅੱਜ ਧੁੱਪ ਬਹੁਤ ਤੇਜ਼ ਹੈ। आज धूप बहुत तेज़ है।

235. ਕੀ ਤੁਹਾਨੂੰ ਮੇਰੇ ਉੱਪਰ ਭਰੋਸਾ ਨਹੀਂ ? ਕਧਾ ਆਪਕੇ ਸੂझ पर भरोसा ਜहੀ?

236. ਜੱਜ ਨੇ ਉਸਨੂੰ ਜ਼ਮਾਨਤ ਦੇ ਦਿੱਤੀ ਹੈ। ਯਯ ਜੇ ਤਸ਼ਕੀ ਯਸ਼ਾਜਰ ਵੇ ਵੀ।

237. ਜੋ ਗੱਜਦੇ ਹਨ ਉਹ ਵੱਸਦੇ ਨਹੀਂ। जो गरजते हैं, वे बरसते नहीं।

238. ਉਹ ਤੁਹਾਡਾ ਉੱਲੂ ਖਿੱਚ ਰਿਹਾ ਹੈ। वह आपको उल्लू बना रहा है।

239. ਗਰੀਬ ਦੀ ਬਦਦੁਆ ਕਦੇ ਨਾ ਲਉ। ਾਨੀਕ का शाप कभੀ न लो।

240. ਇਸ ਸੜਕ ਦੀ ਮੁਰੰਮਤ ਨਹੀਂ ਕੀਤੀ ਗਈ। सड़क की मरम्मत नहीं की गई।

242. ਕੀ ਮੈਂ ਤੁਹਾਡਾ ਇੰਤਜ਼ਾਰ ਕਰਾਂ ? ਕਧਾ ਸੈਂ ਆਪਸੀ ਸ਼ਰੀਖ਼ਾ ਸੁਲੱ?

Exercise 5 (Unsolved)

Translate into English:

243. ਸ਼ਹਿਰ ਵਿੱਚ ਡੇਂਗੂ ਫੈਲ ਰਿਹਾ ਹੈ। शहर में डेंगू फैल रहा है।

244. ਉੱਥੇ ਕੀ ਹੋ ਰਿਹਾ ਹੈ ? वहाँ क्या हो रहा है?

245. ਏਕਤਾ ਵਿੱਚ ਬਲ ਹੈ। एकता में बल है।

246. ਜੀਵਨ ਵਿੱਚ ਸੰਤੁਸ਼ਟੀ ਵੀ ਇੱਕ ਵਰਦਾਨ ਹੈ। जीवन में संतुष्टि भी एक वरदान है।

247. ਉਸ ਨੂੰ ਸਾਰਾ ਲੇਖ ਜ਼ੁਬਾਨੀ ਯਾਦ ਸੀ। उसे सारा निबन्ध मौखिक याद था।

The Art of Translation

साफ सफाई करना अच्छी आदत है। 248. ਸਾਫ਼ ਸਫ਼ਾਈ ਕਰਨਾ ਚੰਗੀ ਆਦਤ ਹੈ। बच्चा क्यों रो रहा है? 249. ਬੱਚਾ ਕਿਉਂ ਰੋ ਰਿਹਾ ਹੈ ? 250. ਵਾਤਾਵਰਨ ਸਾਫ਼ ਰੱਖਣਾ ਹਰ ਨਾਗਰਿਕ ਦਾ ਫਰਜ਼ ਹੈ। वातावरण साफ रखना हर नागरिक का कर्तव्य है। रोगी की हालत ठीक हो रही है। 251. ਰੋਗੀ ਦੀ ਹਾਲਤ ਬਿਹਤਰ ਹੋ ਰਹੀ ਹੈ। विद्या व्यकित को सूझवान बनाती है। 252. ਵਿੱਦਿਆ ਮਨੁੱਖ ਨੂੰ ਸੋਝੀ ਦਿੰਦੀ ਹੈ। Exercise 6 (Unsolved) Translate into English: वह टेढ़ी खीर है। 253. ਉਹ ਟੇਢੀ ਖੀਰ ਹੈ। पढ़ाई में अपना मन लगाओ। 254. ਪੜ੍ਹਾਈ ਵਿੱਚ ਆਪਣਾ ਮਨ ਲਗਾਉ। क्या आप गरीबों की सहायता करते हो? 255. ਕੀ ਤੁਸੀਂ ਗ਼ਰੀਬਾਂ ਦੀ ਮਦਦ ਕਰਦੇ ਹੋ ? 256. ਮੈਂ ਇਸ ਅਪਮਾਨ ਨੂੰ ਸਹਿਣ ਨਹੀਂ ਕਰ ਸਕਾਂਗਾ। ਸੈਂ यह अपमान सहन नहीं कर सक्गा। क्या हवाई यात्रा सुरक्षित है? 257. ਕੀ ਹਵਾਈ ਯਾਤਰਾ ਸੁਰੱਖਿਅਤ ਹੈ ? मैंने उसको गले लगा लिया। 258. ਮੈਂ ਉਸਨੂੰ ਗਲੇ ਲਗਾ ਲਿਆ। उसकी जुबान इतनी क्यों चलती है? 259. ਉਸਦੀ ਜਬਾਨ ਇੰਨੀ ਕਿਉਂ ਚਲਦੀ ਹੈ ? वह रात बहुत ठंडी थी। 260. ਉਹ ਰਾਤ ਬਹੁਤ ਠੰਢੀ ਸੀ। 261. ਤੁਸੀਂ ਆਪਣਾ ਭਵਿੱਖ ਖ਼ਤਰੇ ਵਿੱਚ ਪਾ ਰਹੇ ਹੋ। आप अपना भविष्य खतरे में क्यों डाल रहे हो। बाहर घनघोर अँधेरा था। 262. ਬਾਹਰ ਘੁੱਪ ਹਨੇਰਾ ਸੀ।

The book prescribed & published by the Punjab School Education Board.

- 1. (General English XII) A Rainbow of English
- 2. English Grammar and Composition for XI and XII

Note: All the lessons in the above book are included in the syllabus. No part has been deleted.

Note: Translation will come from chapter 18 The Art of Translations in the book English Grammar and Composition for XI and XII.

Questions can be set from the entire prescribed syllabus. It is not mandatory that all the questions asked by the Paper setter are from the back exercises only.

CLASS-XII

2. ਪੰਜਾਬੀ-ਲਾਜ਼ਮੀ

ਪਾਠ-ਕ੍ਰਮ ਅਤੇ ਅੰਕ-ਵੰਡ

ਸਮਾਂ: 3 ਘੰਟੇ ਲਿਖਤੀ ਪੇਪਰ: 65 ਅੰਕ

ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ: 1● ਅੰਕ

_ ਕੁੱਲ: 75 ਅੰਕ

ਲੜੀ ਨੰ:	ਪਾਠ-ਕ੍ਮ	ਅੰਕ
1.	ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਦੀ ਜਾਣ-ਪਛਾਣ	26
2.	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਲਿਖਣ ਦਾ ਹੁਨਰ:- ਕਾਰ-ਵਿਹਾਰ ਦੇ ਪੱਤਰ, ਸੰਖੇਪ-ਰਚਨਾ	1●
3.	ਵਿਆਕਰਨ :-ਅਖਾਉਤਾਂ ਕੋਸ਼ -ਤਰਤੀਬ ਅਤੇ ਵਾਕ-ਰੂਪਾਂਤਰਨ	16
4.	ਪੰਜਾਬੀ-ਸਾਹਿਤ :- ਕਵਿਤਾਵਾਂ ਅਤੇ ਕਹਾਣੀਆਂ	13
	ਕੁੱਲ ਅੰਕ	65

ਪ੍ਰਸ਼ਨ-ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

ਪਰੀਖਿਆ ਪੱਖੋਂ ਅਧਿਆਪਕਾਂ, ਵਿਦਿਆਰਥੀਆਂ, ਪੇਪਰ ਸੈੱਟਰਾਂ ਅਤੇ ਪਰੀਖਿਅਕਾਂ ਲਈ ਵਿਸ਼ੇਸ਼ ਹਿਦਾਇਤਾਂ **ਪ੍ਰਸ਼ਨ ਨੰ:1** ਸਮੁੱਚੇ ਪਾਠ-ਕ੍ਰਮ ਦੇ ਆਧਾਰ 'ਤੇ ਸੰਖੇਪ ਉੱਤਰਾਂ ਵਾਲ਼ੇ ਦਸ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 1 ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹੋਵੇਗੀ:

- (ੳ) **ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਦੀ ਜਾਣ ਪਛਾਣ**:- ਲੇਖਕ ਦੀ ਰਚਨਾ/ ਰਚਨਾ ਦਾ ਲੇਖਕ, ਗ਼ਲਤ/ਠੀਕ, ਬਹੁ-ਚੋਣ,ਖ਼ਾਲੀ ਥਾਂਵਾਂ, ਇੱਕ ਦੋ ਸ਼ਬਦਾਂ ਦੇ ਉੱਤਰ ਵਾਲੇ 6 ਪਸ਼ਨ ਪੱਛੇ ਜਾਣਗੇ। 6 ਅੰਕ
- (ਅ) **ਕਵਿਤਾਵਾਂ:-** (ਕਵਿਤਾ ਦਾ ਕਵੀ/ ਕਵੀ ਦੀ ਰਚਨਾ)

1 ਅੰਕ

(ੲ) **ਕਹਾਣੀਆਂ:**- (ਪਾਤਰਾਂ ਬਾਰੇ)

1 ਅੰਕ

(ਸ) **ਅਖਾਉਤਾਂ :-** (2 ਅਧੁਰੀਆਂ ਅਖਾਉਤਾਂ ਪੁਰੀਆਂ ਕਰਨੀਆਂ)

1+ 1 =2 ਅੰਕ 6+1+1+2=1● ਅੰਕ

- ਪ੍ਰਸ਼ਨ ਨੰ: 2 ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ −12, ਸੱਭਿਆਚਾਰ ਭਾਗ ਦੇ ਪਾਠਾਂ ਦੇ ਅਭਿਆਸਾਂ ਵਿੱਚੋਂ ਅੱਠ ਪ੍ਰਸ਼ਨ ਪੁੱਛ ਕੇ ਕਿਸੇ ਪੰਜ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 4×5=2● ਅੰਕ
- **ਪ੍ਰਸ਼ਨ ਨੰ**: 3 ਕਾਰ−ਵਿਹਾਰ ਦੇ ਪੱਤਰ ਲਈ ਦੋ ਵਿਸ਼ੇ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਬਾਰੇ ਪੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 2+ 3+1=6 ਅੰਕ
- ਪ੍ਰਸ਼ਨ ਨੰ: 4 ਸੰਖੇਪ-ਰਚਨਾ ਕਰਨ ਲਈ ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਇੱਕ ਪੈਰਾ ਦਿੱਤਾ ਜਾਵੇਗਾ। ਲਗ-ਪਗ ਇੱਕ ਤਿਹਾਈ ਸ਼ਬਦਾਂ ਵਿੱਚ ਸੰਖੇਪ ਰਚਨਾ ਕਰਨੀ ਹੋਵੇਗੀ ਅਤੇ ਸਿਰਲੇਖ ਵੀ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਸਿਰਲੇਖ ਦਾ ਇੱਕ ਅੰਕ ਅਤੇ ਸੰਖੇਪ ਰਚਨਾ ਦੇ ਤਿੰਨ ਅੰਕ ਹੋਣਗੇ। 1+3=4 ਅੰਕ
- ਪ੍ਰਸ਼ਨ ਨੰ: 5 ਪਾਠ-ਪੁਸਤਕ ਅਤੇ ਪਾਠ- ਅਭਿਆਸਾਂ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਨੂੰ ਕੋਸ਼-ਤਰਤੀਬ ਅਨੁਸਾਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 3 ਅੰਕ
- **ਪ੍ਰਸ਼ਨ ਨੰ**. 6 ਪਾਠ−ਪੁਸਤਕ ਅਤੇ ਪਾਠ− ਅਭਿਆਸਾਂ ਵਿੱਚੋਂ ਕੋਈ ਪੰਜ ਵਾਕ ਦੇ ਕੇ ਕਿਸੇ ਤਿੰਨ ਦਾ ਵਾਕ− ਰੂਪਾਂਤਰਨ ਕਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 1×3=3 ਅੰਕ
- ਪ੍ਰਸ਼ਨ ਨੰ: 7 ਪਾਠ−ਪੁਸਤਕ ਵਿੱਚੋਂ ਕੋਈ ਸੱਤ ਅਖਾਉਤਾਂ ਦੇ ਕੇ ਚਾਰ ਨੂੰ ਵਾਕਾਂ ਵਿੱਚ ਵਰਤਣ ਜਾਂ ਉਹਨਾਂ ਦੀਆਂ ਵਰਤੋਂ ਸਥਿਤੀਆਂ ਦੱਸਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 2×4=8 ਅੰਕ
- ਪ੍ਰਸ਼ਨ ਨੰ: 8 ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਤਿੰਨ ਕਵਿਤਾਵਾਂ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦਾ ਕੇਂਦਰੀ ਭਾਵ ਲਿਖਣ ਲਈ ਕਿਹਾ
- ਪ੍ਰਸ਼ਨ ਨੈ: 9 ਪਾਠ-ਪੁਸਤਕਾਂ ਵਿੱਚੋਂ ਦੋ ਕਹਾਣੀਆਂ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦਾ ਸਾਰ ਆਪਣੇ ਸ਼ਬਦਾਂ ਵਿੱਚ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 7 ਅੰਕ

ਨਿਰਧਾਰਿਤ ਪਾਠ-ਪੁਸਤਕ ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ-12

ਪ੍ਰਕਾਸ਼ਕ– ਪੰਜਾਬ ਸਕੂਲ ਸਿੱਖਿਆ ਬੋਰਡ

CLASS-XII 3. PUNJAB HISTORY AND CULTURE

Time: 3 Hrs

Theory: 65 Marks

CCE: 10 Marks

Total: 75 Marks

STRUCTURE OF QUESTION PAPER

1. All questions are compulsory.

The question paper will comprise of four sections A, B, C and D of 18 questions in total. The question paper will carry:

- A. Objective Type Questions: This type will include Question No. 1 to 7 carrying 1 mark each with one word answer/ fill in the blank/ true or false/ multiple choice type questions.
 1 × 7 = 7 Marks
- B. Short Answer Type Questions: This type will include 6 questions from Question No. 8 to 13 carrying 3 marks each. Answer to each question should be in about 30-35 words.
 3 × 6 = 18 Marks
- **C. Long answer Type Questions:** This type will include 5 question from Question No. 14 to 18 will carry 5 marks each with 100% internal choice. Answer to each question should be in about 80-100 words.

 $5 \times 5 = 25$ Marks

D. Map Question: There will be one section of map carrying 15 marks (10 marks for 5 places and 5 marks each for explanation)

Note:- For blind candidates alternative questions will be given in lieu of question no. 19 (map).

Note:- All units of the syllabus should be given adequate representation in the question paper.

Syllabus	A Objective Type Questions 1 mark	B Short Answer Type Questions 3 marks	C Long Answer Type Questions 5 marks	D Map question	Total
Part-1	04	03	03	100% Internal	10
Units I-XI				choice	
Part-2	03	03	02	5 Places $\times 2 = 10$	08
Unit XII-XXII				marks	
				Explanation5×1=5	
				marks	
No.	07	06	05	1	19
of Questions					
Total Marks	07	18	25	15	65

SYALLBUS

PART -A

- 1. The Great Mughals and their legacy to the Punjab.
- 2. Shri Guru Nanak Dev Ji.
- 3. Successors of Shri Guru Nanak Dev Ji.
- 4. Banda Singh Bahadur and his Martyrdom.
- 5. Sikhs became the Masters of the Punjab.

PART-B

- 1. The Punjab under Maharaja Ranjit Singh.
- 2. The British occupation of the Punjab.
- 3. Some Famous Legends of the Punjab:-
- a. Puran Bhagat
- b. Heer Ranjha
- c. Sohni Mahiwal
- 4. Classical Literature of the Medieval period.

PART-C

MAP QUESTION TOPICS

- 1. Banda Singh Bahadur
- 2. Shri Guru Gobind Singh
- 3. Maharaja Ranjit Singh
- 4. First Anglo-Sikh War
- 5. Second Anglo Sikh war

CLASS-XII

4. ENVIRONMENT EDUCATION

Time: 2 Hrs Theory: 45 Marks

CCE: 05 Marks
Total: 50 Marks

STRUCTURE OF QUESTION PAPER (THEORY)

1. There will be one theory paper comprising of 17 questions. All questions will be compulsory.

- 2. Question No.1-5 are very short answer type questions carrying 1 mark each. Answer to each question will be in one line or few words only.
- 3. Question No. 6-10 are short answer type questions carrying 2 marks each. Answer to each queation will be in 20-30 words.
- 4. Question No. 11-15 are long/medium answer type questions carrying 4 marks each. Answer to each question will be 50-60 words.
- 5. Question NO.16 and 17 long answer type question carrying 5 marks. Answer to this question will be in 80 -100 words.
- 6. In Question no: 16 and 17, there will be 100% internal choice.
- 7. There will be no objective type question such as yes/ No/ Tick/cross, fill in the blanks, multiple choice, true/ false etc.
- 8. The question paper should be strictly from the prescribed syllabus based on above mentioned guide lines.

Unit wise distribution of marks will be as follows.

UNIT WISE DISTRIBUTION OF MARKS

Unit	1 Mark questions	2 Mark questions	4 Mark questions	5 Mark questions
Unit-1 Biodiversity	1	1	1	1
Unit-II Environmental Management	1	1	1	or 1
Unit-III Sustainable Development	1	1	1	-
Unit-IV Sustainable Agriculture	1	1	1	1 or
Unit-V Environmental Actions	1	1	1	1
Total Maks	5 marks	10 marks	20 marks	10 marks

INSTRUCTIONS FOR PAPER SETTER

- 1. There will be 17 questions in theory paper.
- 2. Questions No. 1-5 are of 1 mark each and there should be one question from each unit.

- 3. Question 6-10 are of 2 marks each and there should be one question from each unit.
- 4. Question 11-15 are of 4 marks each and there should be one question from each unit.
- 5. Question 16 will be of 5 marks and to be set from unit I and choice question should be set from unit II.
- 6. Question 17 will be of 5 marks and to be set from unit IV and choice Question should be set from unit V.

SYLLABUS

Unit-1 Biodiversity

- Concept and value of biodiversity
- Levels of biodiversity species, eco and genetic.
- Balance in nature.
- Biodiversity for sustenance of mankind.
- Resource limitation.
- Ecological role of biodiversity.
- Interdependence among different species.
- India as a mega diversity nation.
- Economic potential of biodiversity.
- Loss of biodiversity- threatened, endangered and extinct.
- Strategies for conservation of biodiversity in situ and ex situ.
- Mitigating the people- wildlife conflict.

Unit-II Environmental Management

- Need for environment management vis-a-vis development.
- Aspects of environmental management-ethical, economic, technological and social.
- Legal provisions for environmental management.
- Approaches for environmental management- economic policies, environmental indicators, setting of standards, information exchange and surveillance.
- Problem of stubble and its management (study material upload on website)

Unit-III Sustainable Development

- Concept of sustainable development.
- Concept of sustainable consumption.

- Need for sustainable development for improving the quality of life for the present and future.
- Challenges for sustainable development-political and administrative will, dynamic and flexible polices, appropriate technologies, comprehensive review and revision mechanism, human approach.
- Development of skilled manpower.
- Role of individual and community.
- Role of nationa and international agencies (both governmental and non-governmental)

Unit-IV Sustainable Agriculture

- Need for sustainable agriculture.
- Green revolution-impact on environment.
- Importance of soil for crops, Irrigation systems, use of manure and fertilizers.
- Crop protection-major plant pests and diseases (wheat, rice, cotton, sugarcane, potato), measures for their control-agrochemicals.
- Impact of agrochemicals on environment.
- Elements of sustainable agriculture-mixed farming, mixed cropping, crop rotation, biological and economic consideration, use of biofertilizers and bio pesticides, biological pest control, integrated pest management.
- Application of biotechnology in crop improvement.
- Management of agricultural produces- storage, preservation, transportation and processing.

Unit-V Environmental Actions

- Meeting basic human need, food, water, shelter and fuel for all.
- Population control
- Changing consumption patterns.
- Prevention and control of environmental pollution.
- Waste management- reduce, reuse and recycle;
- Community movement for ecological restoration and conservation of environment like joint forest Management (JFM), student's participation in tree rearing, social and agro-forestry.
- Drugs-ill effects(Part-II) Consequences of use of different dugs, The narcotic drugs and psychotropic substances Act-1985 offences as penalties.(study material uploaded on website)

CCE

Example projects and Activities:

It is expected that student will undertake two projects or activities. These projects should be undertaken individually and student will prepare a report in each case. Teacher may plan and design projects and activities depending upon the local situations, available resources and environmental issues of concern. The projects and activities given below are only suggestive and not prescriptive.

- To study the status of an endangered spacies listed for region by collecting information through different sources and observation and to assesss the reasons for its diminishing number. Suggest ways and means to protect the species.
- To conduct a survery of plants and trees in the locality and collect information about their cultural, economic and medicinal values from the local people and available literature. To prepare an action plan for afforestion and planting of trees as trees are most valuable in terms of their cultural, economic importance and medicial use.
- To study the practices followed in the region for storage, preservation, transportation and processing of perishable or non perishable farm products and to assess the extent of their wastage due to faulty practices.
- To make a list of raw materials used by the family for preparing different types of dishes. To identify the plants and their parts from which food material is obtained. To make a list of plants on which the animals depend for their food. To prepare a report supported by diagrams/photographs/pictures/graphs to focus on the importance of biodiversity in providing food to human population.
- To study the impact of changes in agricultural practices of animal husbandry including poultry, piggery, fishery and apiculture over a period of time in the local environment or in a given locality or village. The components for analysis may include; types of crop, land area under cultivation, mechanization, use of electricity, mode of irrigation and agrochemicals, agro wastes and their diposal, types of animal breed and their feed, types of shelter and health care, method of preservation and processing of products and animal wastes and their disposal. To suggest an action plan for modifying the prevailing practices so as to make them environment friendly and sustainable.

ਸ੍ਰੇਣੀ-ਬਾਰ੍ਹਵੀ 5. ਕੰਪਿਉਟਰ ਸਾਇੰਸ

> ਸੀ.ਸੀ.ਈ. : 1● ਅੰਕ ਪ੍ਯੋਗੀ : 4● ਅੰਕ

> > ਕੁੱਲ :1●● ਅੰਕ

ਅਗਵਾਈ ਲੀਹਾਂ (ਲਿਖਤੀ ਪ੍ਰੀਖਿਆ)

- 1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਚਾਰ ਭਾਗਾਂ (ਭਾਗ ੳ, ਭਾਗ ਅ, ਭਾਗ ੲ ਅਤੇ ਭਾਗ ਸ) ਵਿੱਚ ਵੰਡਿਆ ਹੋਵੇਗਾ।
- 2. ਭਾਗ ੳ ਆਬਜੈਕਟਿਵ ਟਾਇਪ ਹੋਵੇਗਾ ਜਿਸ ਵਿੱਚ 1 ਤੋਂ 6 ਤੱਕ 1−1 ਅੰਕ ਦੇ 6 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।
- 3. ਭਾਗ ਅ ਵਿੱਚ ਪ੍ਰਸ਼ਨ ਨੂੰ 7 ਤੋਂ 12 ਤੱਕ 2-2 ਅੰਕ ਦੇ 6 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।
- 4. ਭਾਗ ੲ ਵਿੱਚ ਪ੍ਰਸ਼ਨ ਨੰ 13 ਤੋਂ 17 ਤੱਕ 4-4 ਅੰਕ ਦੇ 5 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।
- 5. ਭਾਗ ਸ ਵਿੱਚ ਪ੍ਰਸ਼ਨ ਨੂੰ 18 ਤੋਂ 19 ਤੱਕ 6-6 ਅੰਕ ਦੇ 2 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।
- 5. ਭਾਗ ੳ, ਅ, ੲ ਅਤੇ ਭਾਗ ਸ ਦੇ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਜਰੂਰੀ ਹੋਣਗੇ। ਭਾਗ ੲ ਅਤੇ ਸ ਵਿੱਚ ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਦੋ ਜਾਂ ਦੋ ਤੋਂ ਵੱਧ ਭਾਗ ਵੀ ਹੋ ਸਕਦੇ ਹਨ। ਭਾਗ ਸ ਵਿੱਚ ਅੰਦਰੂਨੀ ਛੋਟ ਹੋਵੇਗੀ।

ਲੜੀ	ਅਧਿਆਇ ਦਾ ਨਾਂ	ਕੁੱਲ	1 ਅੰਕਾਂ	2 ਅੰਕਾਂ	4 ਅੰਕਾਂ	6 ਅੰਕਾਂ
ਨੰ		ਅੰਕ	ਵਾਲੇ ਪ੍ਰਸ਼ਨ	ਵਾਲੇ ਪ੍ਰਸ਼ਨ	ਵਾਲੇ ਪ੍ਰਸ਼ਨ	ਵਾਲੇ ਪ੍ਰਸ਼ਨ
1.	ਗਿਆਰ੍ਹਵੀਂ ਕਲਾਸ ਦੀ	3	1	1		
	ਦੁਹਰਾਈ					
2.	ਸਟਰਿੰਗ ਫੰਕਸ਼ਨ ਦੀ ਵਰਤੋਂ	6		1	1	
3.	ਯੂਜ਼ਰ ਡਿਫਾਇੰਨਡ ਫੈਕਸ਼ਨਜ਼	7	1	1	1	
4.	ਵਿੰਡੋ ਮੂਵੀ ਮੇਕਰ-1	7	1	1	1	
5.	ਵਿੰਡੋ ਮੂਵੀ ਮੇਕਰ-2	5	1		1	
6.	ਨੈੱਟਵਰਕਿੰਗ ਸੰਕਲਪ	9	1	1		1
7.	ਲਾਈਬ੍ਰੇਰੀ ਫੰਕਸ਼ਨਜ਼	6		1	1	
8.	ਈ-ਗਵਰਨੈਂਸ	7	1			1
	ਕੁੱਲ ਜੋੜ	5●	6	12	2●	12

ਪਾਠ ਕ੍ਮ (ਲਿਖਤੀ ਪ੍ਰੀਖਿਆ)

ਗਿਆਰ੍ਹਵੀਂ ਕਲਾਸ ਦੀ ਦੁਹਰਾਈ

- ਸੀ ਭਾਸ਼ਾ ਵਿੱਚ ਪ੍ਰੋਗਰਾਮਿੰਗ ਲਈ ਭੂਮਿਕਾ
- ਕਮਪਾਇਲਰ ਨਿਰਦੇਸ਼
- ਐਰੇ :- ਐਰੇ ਵਿੱਚ ਡਾਟਾ ਭਰਨਾ, ਐਰੇ ਦੇ ਮੁੱਲਾਂ ਦੀ ਪਹੁੰਚ ਕਰਨੀ, ਦੋ ਡਾਇਮੈਸ਼ਨਲ ਐਰੇ ਦੀ ਡਿਕਲੇਅਰੇਸ਼ਨ
- ਨੈਟਵਰਕਿੰਗ ਸੰਕਲਪ

1. ਸਟਰਿੰਗ ਫੈਕਸ਼ਨ ਦੀ ਵਰਤੋਂ

- ਭੂਮਿਕਾ
- ਡਿਕਲੇਰੇਸ਼ਨ ਅਤੇ ਸਟਰਿੰਗ ਵੇਰੀਏਬਲ
- ਪ੍ਰੋਗਰਾਮ ਸਟਰਿੰਗ ਦੀ ਪ੍ਰਿੰਟਿੰਗ ਪ੍ਰਦਰਸ਼ਿਤ ਕਰਨੀ
- ਸਟਰਿੰਗ ਪੜ੍ਹਨਾ ਅਤੇ ਲਿਖਣਾ : ਸਟਰਿੰਗ ਪੜ੍ਹਨਾ, ਸਟਰਿੰਗ ਲਿਖਣਾ, ਮੋਨੀਟਰ ਤੋਂ ਸਟਰਿੰਗ ਪੜ੍ਹਨਾ
- ਸਧਾਰਣ ਇਨਪੁੱਟ ਆਉਟਪੁੱਟ
- ਸਟਰਿੰਗ ਉਪਰੇਸ਼ਨ : ਸਟਰਕਟ ਫੈਕਸ਼ਨ (streat () function)
- ਸਟਰਕਮਪ ਫੰਕਸ਼ਨ (strcmp () function)
- ਸਟਰਲਵਰ ਫੈਕਸ਼ਨ (strlwr () function)
- ਸਟਰਰੀਵ ਫੰਕਸ਼ਨ (strrev () function)
- ਸਟਰਅਪਰ ਫੈਕਸ਼ਨ (strupr () function)

ਪ੍ਰੋਗਰਾਮ ਪਰਿਭਾਸ਼ਾ -1

ਇਕ ਪ੍ਰੋਗਰਾਮ ਸਟਰਿੰਗ ਫੰਕਸ਼ਨਜ਼ ਦੀ ਵਰਤੋਂ ਬਿਨਾਂ ਦੋ ਸਟਰਿੰਗ ਨੂੰ ਕਨਕੇਟੀਨੇਟ (concatenate) ਕਰਨ ਲਈ ਅਤੇ ਇੱਕ ਨਵੀਂ ਸਟਰਿੰਗ ਬਣਾਉਣ ਲਈ।

ਪ੍ਰੋਗਰਾਮ ਪਰਿਭਾਸ਼ਾ - 2

ਇਕ ਪ੍ਰੋਗਰਾਮ ਸਟਰਿੰਗ ਫੈਕਸ਼ਨਜ਼ ਦੀ ਵਰਤੋਂ ਦੇ ਬਿਨਾਂ ਦੋ ਸਟਰਿੰਗਜ਼ ਦੀ ਤੁਲਨਾ ਲਈ।

ਪ੍ਰੋਗਰਾਮ ਪਰਿਭਾਸ਼ਾ - 3

ਇਕ ਪ੍ਰੋਗਰਾਮ ਸਟਰਿੰਗ ਦੀ ਵਰਤੋਂ ਬਿਨਾਂ ਦਿੱਤੇ ਗਏ ਟੈਕਸਟ ਨੂੰ ਉਲਟਾਉਣ ਲਈ।

2. ਯੂਜਰ ਡਿਫਾਇੰਡ ਫੈਕਸ਼ਨ÷

- ਭੂਮਿਕਾ
- ਬਿਲਟ ਇੰਨ ਫੈਕਸ਼ਨ / ਲਾਇਬਰੇਰੀ ਫੈਕਸ਼ਨ ਯੂਜਰ ਡੀਫਾਈਨ ਫੈਕਸ਼ਨਜ਼, ਫੈਕਸ਼ਨਜ਼ ਦੀ ਜ਼ਰੂਰਤ
- ਆਰਗੁਮੈਂਟ ਅਤੇ ਪੈਰਾਮੀਟਰ
- ਕੋਡ ਲਾਈਨ
- ਮਲਟੀਫੈਕਜ਼ਨ ਪ੍ਰੋਗਰਾਮ
- ਫੰਕਸ਼ਨ ਦੀ ਬਣਤਰ
- ਰਿਟਰਨ ਮੁੱਲ ਅਤੇ ਉਹਨਾਂ ਦੇ ਟਾਈਪਸ, ਸਿੰਪਲ ਰਿਟਰਨ
- ਫੰਕਸ਼ਨ ਨੂੰ ਕਾਲ ਕਰਨਾ
- ਫੰਕਸ਼ਨ ਨਾਲ ਆਰਗੁਮੈਂਟ, ਬਗੈਰ ਰਿਟਰਨ ਮੁੱਲ
- ਸਟੋਰੇਜ ਸ਼ੇਣੀਆਂ
- ਸਟੈਟਿਕ ਵੇਰੀਏਬਲ
- ਐਕਸਟਰਨਲ ਵੇਰੀਏਬਲ
- ਫੰਕਸ਼ਨ ਬਗੈਰ ਆਰਗੁਮੈਂਟ, ਰਿਟਰਨ ਮੁੱਲ ਨਾਲ

3. **ਵਿੰਡੋ ਮੁਵੀ ਮੇਕਰ -1**

- ਭੂਮਿਕਾ
- ਫਾਈਲ ਦੀਆਂ ਕਿਸਮਾਂ : ਆਡੀਓ ਫਾਈਲ, ਵੀਡੀਓ ਫਾਈਲ, ਪਿਕਚਰ ਫਾਈਲ
- ਕੋਲੈਕਸ਼ਨਜ਼, ਪ੍ਰੋਜੈਕਟ ਅਤੇ ਮੁਵੀਜ਼ ਨੂੰ ਜਾਨਣਾ
- ਸੋਰਸ ਫਾਈਲ
- ਵੀਡੀਓ ਕੈਪਚਰ ਡੀਵਾਈਸਜ਼
- ਆਡੀਓ ਕੈਪਚਰ ਡੀਵਾਈਸਜ਼
- ਕੈਪਚਰ ਡੀਵਾਈਸ ਦੀ ਸੂਚੀ : ਵੈਬ ਕੈਮਰਾ, ਐਨਾਲਾਗ ਕੈਮਰਾ ਜਾਂ ਵੀ. ਸੀ. ਆਰ. (V.C.R) ਦਾ ਐਨਾਲਾਗ ਕੈਪਚਰ (capture) ਕਾਰਡ ਨਾਲ ਜੋੜ
- ਡਿਜੀਟਲ ਵੀਡੀਓ ਕੈਮਰਾ ਜਾਂ ਵੀ.ਸੀ. ਆਰ ਦਾ IEEE 1394 ਪੋਰਟ ਨਾਲ ਜੋੜ, ਮਾਈਕਰੋਫੋਨ ਦਾ ਸਾਉਂਡ ਕਾਰਡ ਜਾਂ ਯੂ. ਐਸ. ਬੀ ਪੋਰਟ ਨਾਲ ਜੋੜ
- ਵਿੰਡੋਜ਼ ਮੂਵੀ ਮੇਕਰ ਇੰਨਟਰਫੇਸ : ਮੀਨੂੰ ਬਾਰ ਅਤੇ ਟੂਲ-ਬਾਰ, ਪੇਨਜ਼, ਸਟੋਰੀ-ਬੋਰਡ ਜਾਂ ਟਾਈਮ ਲਾਈਨ ਪੇਨਜ਼, ਕੋਲੈਕਸ਼ਨ ਪੇਨ, ਕਾਨਟੈਂਟਸ ਪੇਨ, ਡੀਟੇਲਜ਼, ਥੰਬ ਨੇਲ, ਮੋਨੀਟਰ
- ਸਟੋਰੀਬੋਰਡ : ਸਟੋਰੀ ਬੋਰਡ ਦੀ ਵਰਤੋਂ, ਸਟੋਰੀ ਬੋਰਡ ਦਾ ਨਿਰਮਾਣ
- ਵਿੰਡੋਜ਼ ਮੁਵੀਮੇਕਰ ਦੀ ਵਰਤੋਂ : ਮੁਵੀ ਟਾਸਕ ਪੇਨ, ਵੀਡੀਓ ਕੈਪਚਰ, ਐਡਿਟ ਵੀਡੀਓ, ਫਿਨਿਸ਼ ਵੀਡੀਓ
- ਕੋਲੈਕਸ਼ਨ, ਸਪਲਿਟ ਬਟਨ, ਸਕਰੀਨ ਸ਼ਾਟ ਬਟਨ, ਵੀਡੀਓ ਟਰੈਕ, ਆਡੀਓ ਟਰੈਕ, ਟਾਈਟਲ ਟਰੈਕ
- ਹੈਂਡਜ ਆਨ ਵਿੰਡੋਜ਼ ਮੂਵੀਮੇਕਰ (hands on windows movie maker) : ਨਿਊ ਪ੍ਰੋਜੈਕਟ ਖੋਲ੍ਹਣਾ, ਆਪਣੇ, ਕੰਪਿਊਟਰ ਤੋਂ ਵੀਡੀਓ ਇਮਪੋਰਟ ਕਰਨਾ,ਪਿਕਚਰ ਇੰਪੋਰਟ ਕਰਨਾ
- ਵੀਡੀਓ ਸਕਰੀਨ / ਮੋਨੀਟਰ : ਕਲਿਪ ਨੂੰ ਦੇਖਣਾ, ਨਿਊ ਕੋਲੈਕਸ਼ਨ ਬਣਾਉਣਾ, ਆਡੀਓ ਜਾਂ ਵੀਡੀਓ ਨੂੰ ਦੋ ਭਾਗਾਂ ਵਿੱਚ ਵੰਡਣਾ, ਸਪਲਿਟ ਕੀਤੀ ਹੋਈ ਆਡੀਓ ਜਾਂ ਵੀਡੀਓ ਨੂੰ ਜੋੜਨਾ, ਕਲਿਪ ਨੂੰ ਕੋਲੈਕਸ਼ਨ ਵਿੱਚ ਕਾਪੀ ਕਰਨਾ, ਇਕ ਵੀਡੀਓ ਤੋਂ ਮੋਨੀਟਰ ਰਾਹੀਂ ਪਿਕਚਰ ਲੈਣੀ

4. ਵਿੰਡੋ ਮੁਵੀ ਮੇਕਰ - 2

- ਭੂਮਿਕਾ
- ਟਾਈਮ-ਲਾਈਨ ਵਿਉ
- ਸਟੋਰੀ ਬੋਰਡ ਵਿੱਚ ਵੀਡੀਓ ਕਲਿੱਪ ਜੋੜਨਾ
- ਸਟੋਰੀ ਬੋਰਡ ਵਿੱਚ ਦੁਬਾਰਾ ਤੋਂ ਤਰਤੀਬ ਵਾਰ ਕਰਨਾ, ਟਾਈਮ ਲਾਈਨ ਦਾ ਪ੍ਰਯੋਗ ਕਰਦੇ ਹੋਏ ਕਲਿਪਸ

- ਤੋੜਨਾ, ਇਕ ਵੀਡੀਓ ਨੂੰ ਤੋੜਨਾ
- ਕਲਿਪਸ ਦੀ ਟਰੀਮਿੰਗ: ਕਲਿਪਸ ਦੀ ਛਟਾਈ ਕਰਨਾ, ਇਕ ਕਲਿਪ ਦੀ ਟਰਿਮ ਜਾਂ ਛਾਂਟੀ ਕਰਨਾ, ਟਰਿਮ ਪੁਆਇੰਟ ਨੂੰ ਸਾਫ਼ ਕਰਨਾ, ਟੁੱਟੇ ਹੋਏ ਵੀਡੀਓ ਕਲਿਪਸ ਨੂੰ ਆਪਸ ਵਿੱਚ ਜੋੜਨਾ, ਮੂਵੀ ਨੂੰ ਐਡਿਟ ਕਰਨਾ, ਵੀਡੀਓ ਟਰਾਂਜਿਸ਼ਨ, ਵੀਡੀਓ ਇਫੈਕਟਸ, ਟਾਈਟਲ ਅਤੇ ਕਰੈਡਿਟਸ, ਵੀਡੀਓ ਟਰਾਂਜਿਸ਼ਨ ਨੂੰ ਲਾਗੂ ਕਰਨਾ, ਵੀਡਿਓ ਇਨਫੈਕਟਸ ਜੋੜਨਾ, ਟਾਈਟਲ ਤੇ ਕਰੈਡਿਟ, ਪ੍ਰੀ-ਵਿਊ ਮੂਵੀ ਟਾਈਟਲ, ਆਡੀਓ ਐਡ ਕਰਨਾ, ਆਡੀਓ ਨੂੰ ਪਿਕਚਰ ਨਾਲ ਅਲਾਈਨ ਕਰਨਾ, ਆਡੀਓ ਕਲਿਪ ਦਾ ਟਾਈਮ ਲਾਈਨ ਵਿਊ, ਐਡਟਿੰਗ ਆਡੀਓ, ਵੀਡੀਓ ਦਾ ਆਡੀਓ ਘੱਟ ਜਾਂ ਵੱਧ ਕਰਨਾ।

5. ਨੈਟਵਰਕਿੰਗ ਸੰਕਲਪ

- ਭੂਮਿਕਾ
- ਨੈੱਟਵਰਕਰ ਕੀ ਹੁੰਦਾ ਹੈ; ਨੈੱਟਵਰਕਿੰਗ ਲਈ ਲੋੜ, ਨੈੱਟਵਰਕਿੰਗ ਟਰਮੀਨੋਲੋਜੀ
- ਨੈੱਟਵਰਕ ਦੀਆਂ ਕਿਸਮਾਂ
- ਨੈੱਟਵਰਕ ਟੋਪੋਲੋਜੀ : ਟੋਪੋਲੋਜੀ ਕੀ ਹੁੰਦੀ ਹੈ, ਭੌਤਿਕ ਟੋਪੋਲੋਜੀ ਦੀਆਂ ਮੁੱਖ ਕਿਸਮਾਂ, ਲੀਨੀਅਰ ਬੱਸ ਟੋਪੋਲੋਜੀ, ਸਟਾਰ -ਟੋਪੋਲੋਜੀ, ਟ੍ਰੀ- ਟੋਪੋਲੋਜੀ, ਮੈਸ਼- ਟੋਪੋਲੋਜੀ, ਪਾਰਸ਼ਲ ਮੈਸ਼- ਟੋਪੋਲੋਜੀ
- ਪ੍ਰੋਟੋਕੋਲਜ਼ : ਯੂਨੀਫਾਰਮ ਰਿਸੋਰਸ ਲੋਕੇਟਰ (ਯੂ.ਆਰ.ਐਲ) ਫਾਈਲ ਟਰਾਂਸਫਰ ਪ੍ਰੋਟੋਕੋਲ ਅਤੇ ਹਾਈਪਰਟੈਕਸਟ ਟਰਾਂਸਫਰ ਪ੍ਰੋਟੋਕੋਲ (ਫਾਈਲ ਟਰਾਂਸਫਰ ਪ੍ਰੋਟੋਕੋਲ, ਹਾਈਪਰਟੈਕਸਟ ਟਰਾਂਸਫਰ ਪ੍ਰੋਟੋਕੋਲ), ਪ੍ਰਾਈਵੇਟ ਨੈੱਟਵਰਕਸ
- ਚੈਨਲ ਦੀ ਵਿਚਾਰਧਾਰਾ : ਸੰਚਾਰ ਚੈਨਲ ਕੀ ਹੰਦਾ ਹੈ, ਡਾਟਾ ਬਦਲੀ ਦਰ
- ਸੰਚਾਰ ਮਾਧਿਅਮ : ਗਾਈਡਿਡ ਮੀਡੀਆ, ਅਨਗਾਈਡਿਡ ਮੀਡੀਆ, ਆਰ.ਐਫ ਪ੍ਰਸਾਰ
- ਨੈਟਵਰਕਿੰਗ ਡਿਵਾਇਸ : ਹੱਬ ਅਤੇ ਮੋਡਮ

6. ਲਾਈਬ੍ਰੇਰੀ ਫੰਕਸ਼ਨ÷

- ਫੰਕਸ਼ਨ
- ਸਟਰਲੇਨ ਫੈਕਸ਼ਨ (Strlen ())
- ਸਟਰੇਪੀ ਫੈਕਸ਼ਨ (Strcpy())
- ਸਟਰੀਟ ਫੰਕਸ਼ਨ (Strcat())
- ਸਟਰੈਮਪ ਫੰਕਸ਼ਨ (Stremp())
- ਗੈਟਚਰ ਫੰਕਸ਼ਨ (getchar())
- ਪੁਟਚਰ ਫੈਕਸ਼ਨ (putchar())
- ਪ੍ਰਿੰਟਐਫ ਫੰਕਸ਼ਨ (Printf())
- ਸਕੈਨਐਫ ਫੰਕਸ਼ਨ (Scanf())
- ਕੋਸ ਫੰਕਸ਼ਨ (Cos())
- ਐਕਸਪ ਫੰਕਸ਼ਨ (Exp())
- ਪੋਵ ਫੰਕਸ਼ਨ (Pow())
- ਸਕਰਟ ਫੰਕਸ਼ਨ (Sqrt())
- ਐਫਮੋਡ ਫ ਫੰਕਸ਼ਨ (fmod())
- ਫੇਬਸ ਫੰਕਸ਼ਨ (Fabs())
- ਸੀਲ ਫੰਕਸ਼ਨ (Ceil ())
- ਫਲੋਰ ਫੰਕਸ਼ਨ (floor())
- ਇਜ਼ਲੋਅਰ ਅਤੇ ਇਜ਼ਅਪਰ ਫੈਕਸ਼ਨ (islower() and isupper())
- ਟੁਲੋਅਰ ਅਤੇ ਟੁਅਪਰ ਫੰਕਸ਼ਨ (tolower()) and (toupper ())
- ਫੰਕਸ਼ਨ ਦੇ ਲਾਭ

7. ਈ−ਗਵਰਨੈਂਸ (e-Governance)

- ਈ-ਗਵਰਨੈਂਸ ਦਾ ਪ੍ਰਯੋਗ:
- ਘੱਟ ਖਰਚ, ਤੇਜ ਰਫ਼ਤਾਰ,ਕਿਤੇ ਵੀ ਕਿਸੇ ਵੀ ਟਾਇਮ,ਆਸਾਨ ਪ੍ਰਬੰਧ
- ਈ-ਗਵਰਨੈਂਸ ਦੇ ਅੱਲਗ-ਅੱਲਗ ਖੇਤਰ:ਇੰਟਰਨੈੱਟ ਬੈਂਕਿੰਗ,ਆਨ-ਲਾਈਨ ਰੇਲਵੇ ਅਤੇ ਹਵਾਈ ਟਿਕਟਿੰਗ, ਆਈ- ਟਿਕਟਿੰਗ,ਈ-ਟਿਕਟਿੰਗ, ਪਾਸਪੋਰਟ ਸੇਵਾਵਾਂ
- ਸਵਿਧਾ ਸੈਂਟਰ

ਕੰਪਿਊਟਰ ਸਾਇੰਸ ਅਗਵਾਈ ਲੀਹਾਂ (ਪ੍ਯੋਗੀ ਪ੍ਰੀਖਿਆ)

ਸਮਾਂ : 3 ਘੰਟੇ ਅੰਕ: 4●

ਪ੍ਰੀਖਿਆ ਲਈ ਅੰਕ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹੋਵੇਗੀ:

ਸੈਕਸ਼ਨ - ਏ ਵਾਇਵਾ- ਵੋਸ 1● ਸੈਕਸ਼ਨ - ਬੀ ਰਿਕਾਰਡ ਫਾਇਲ 1● ਸੈਕਸ਼ਨ - ਸੀ ਛੋਟੇ ਪ੍ਰੋਗਰਾਮ 2●

- 1. ਸੈਕਸ਼ਨ ਏ ਵਿੱਚ ਪ੍ਰੀਖਿਆਰਥੀ ਤੋਂ ਪਾਠ ਕ੍ਮ ਵਿੱਚੋਂ ਪੰਜ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੋ ਦੋ ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਇਹ ਪ੍ਰਸ਼ਨ ਓਬਜੈਕਟਿਵ ਟਾਈਪ ਜਾਂ ਵਿਆਖਿਆ ਦੱਸਣੀ ਜਾਂ ਕੰਪਿਊਟਰ ਦੇ ਵੱਖ ਵੱਖ ਹਿੱਸਿਆਂ ਅਤੇ ਇਸ ਨਾਲ ਜੁੜੇ ਸਹਾਇਕਾਂ ਦੇ ਬਹੁਤ ਛੋਟੇ ਅਭਿਆਸ ਹੋਣਗੇ। 5×2=10 ਅੰਕ
- 2. ਸੈਕਸ਼ਨ ਬੀ ਵਿੱਚ ਪ੍ਰੀਖਿਆਰਥੀ ਦਾ ਸਲਾਨਾ ਰਿਕਾਰਡ ਚੈਕ ਕੀਤਾ ਜਾਵੇਗਾ। 1**0 ਅੰਕ**
- 3. ਸੈਕਸ਼ਨ ਸੀ ਵਿੱਚ ਪੰਜ ਪ੍ਰਸ਼ਨ /ਪ੍ਰੋਗਰਾਮ ਸੈੱਟ ਕੀਤੇ ਜਾਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿੱਚੋਂ ਪ੍ਰੀਖਿਆਰਥੀ ਨੂੰ ਚਾਰ ਪ੍ਰੋਗਰਾਮ / ਪ੍ਰਸ਼ਨ ਕਰਨ ਦੀ ਖੁੱਲ ਹੋਵੇਗੀ। ਹਰ ਪ੍ਰੋਗਰਾਮ/ਪ੍ਰਸ਼ਨ ਪੰਜ ਪੰਜ ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ, ਹਰੇਕ ਪ੍ਰੋਗਰਾਮ/ ਪ੍ਰਸ਼ਨ ਲਈ ਅੰਦਰੂਨੀ ਅੰਕ ਵੰਡ ਪੇਪਰ ਸੈੱਟਰ ਕਰਕੇ ਦੇਵੇਗਾ। 4×5=2● ਅੰਕ

<u>ਪਾਠ ਕ੍ਰਮ (ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ)</u>

1. ਸਟਰਿੰਗ ਫੰਕਸ਼ਨ ਦੀ ਵਰਤੋਂ

- ਸਟਰਿੰਗ ਫੰਕਸ਼ਨ : ਡੇਕਲੇਰੇਸ਼ਨ, ਇਨਿਸ਼ਿਯਲਾਈਜ਼ੇਸ਼ਨ
- ਪ੍ਰੋਗਰਾਮ ਸਟਰਿੰਗ ਦੀ ਪ੍ਰਿੰਟਿੰਗ ਪ੍ਰਦਰਸ਼ਿਤ ਕਰਨੀ
- ਸਟਰਿੰਗ ਪੜ੍ਹਨਾ ਅਤੇ ਲਿਖਣਾ
- ਸਾਧਾਰਣ ਇੰਨਪੁਟ / ਆਊਟਪੁੱਟ ਗੈਟਚਰ, ਪੁੱਟਚਰ, ਪ੍ਰਿੰਟਐਫ (I/O getchar(), putchar(), printf())
- ਸਟਰਿੰਗ ਔਪਰੇਸ਼ਨ (string.h)

2. ਯੂਜ਼ਰ ਡਿਫਾਇੰਡ ਫੈਕਸ਼ਨਜ਼

- ਬਿਲਟ-ਇੰਨ ਫੰਕਸ਼ਨਜ਼/ਲਾਈਬ੍ਰੇਰੀ ਫੰਕਸ਼ਨਜ਼
- ਆਰਗੁਮੈਂਟਸ ਅਤੇ ਪੈਰਾਮੀਟਰਜ
- ਕੋਡ ਲਾਈਨ
- ਮਲਟੀਫੰਕਸ਼ਨ
- ਫੰਕਸ਼ਨ ਦੀ ਬਣਤਰ
- ਫੰਕਸ਼ਨ ਨੂੰ ਕਾਲ ਕਰਨਾ

3. ਵਿੰਡੋ ਮੁਵੀ ਮੇਕਰ-1

- ਆਡੀਓ-ਵੀਡੀਓ ਫਾਈਲ
- ਪ੍ਰੋਜੈਕਟ, ਮੁਵੀ, ਕੈਪਚਰਿੰਗ, ਸਪਲਿੰਟਿੰਗ

4. ਵਿੰਡੋ ਮੁਵੀ ਮੇਕਰ-2

- ਟਾਈਮ ਲਾਈਨ ਵਿਊ
- ਪ੍ਰੋਜੈਕਟ ਨੂੰ ਚਲਾਉਣਾ
- ਟੀਮਿੰਗ
- ਐਡਿਟਿੰਗ
- ਵੀਡਿਓ ਟਰਾਂਜਿਸ਼ਨ
- ਵੀਡਿਓ ਇਫੈਕਟ
- ਵੀਡਿਓ ਟਾਈਟਲ
- ਵੀਡਿਓ ਕਰੈਟਿਡ
- ਵੀਡਿਓ ਪ੍ਰੀਵਿਓ

5. ਲਾਈਬ੍ਰੇਰੀ ਫੰਕਸ਼ਨਜ਼

- ਫੰਕਸ਼ਨ
- ਸਟਰਲੇਨ ਫੈਕਸ਼ਨ (Strlen ())
- ਸਟਰੇਪੀ ਫੈਕਸ਼ਨ (Strcpy())
- ਸਟਰੀਟ ਫੈਕਸ਼ਨ (Strcat())
- ਸਟਰੈਮਪ ਫੰਕਸ਼ਨ (Strcmp())
- ਗੈਟਚਰ ਫੰਕਸ਼ਨ (getchar())
- ਪੁਟਚਰ ਫੰਕਸ਼ਨ (putchar())
- ਪ੍ਰਿੰਟਐਫ ਫੈਕਸ਼ਨ (Printf())

- ਸਕੈਨਐਫ ਫੰਕਸ਼ਨ (Scanf())
- ਕੋਸ ਫੰਕਸ਼ਨ (Cos())
- ਐਕਸਪ ਫੰਕਸ਼ਨ (Exp())
- ਪੌਵ ਫੰਕਸ਼ਨ (Pow())
- ਸਕਰਟ ਫੰਕਸ਼ਨ (Sqrt())
- ਐਫਮੋਡ ਫ ਫੰਕਸ਼ਨ (fmod())
- ਫੇਬਸ ਫੈਕਸ਼ਨ (Fabs())
- ਸੀਲ ਫੰਕਸ਼ਨ (Ceil ())
- ਫਲੌਰ ਫੰਕਸ਼ਨ (floor())
- ਇਜ਼ਲੋਅਰ ਅਤੇ ਇਜ਼ਅਪਰ ਫੰਕਸ਼ਨ (islower() and isupper())
- ਟੂਲੋਅਰ ਅਤੇ ਟੂਅਪਰ ਫੈਕਸ਼ਨ (tolower()) and (toupper ())
- ਫੰਕਸ਼ਨ ਦੇ ਲਾਭ

CLASS-XII 6. ਪੰਜਾਬੀ (ਚੋਣਵਾਂ ਵਿਸ਼ਾ)

ਸਮਾਂ : 3 ਘੰਟੇ ਲਿਖਤੀ ਪੇਪਰ : 9● ਅੰਕ

ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ: 1● ਅੰਕ

ਕੁੱਲ: 1●● ਅੰਕ

ਲੜੀ	ਪਾਠ–ਕ੍ਮ	ਅੰਕ
ਨੰ:		
1.	ਪੰਜਾਬੀ-ਕਾਵਿ:- ਸੂਫ਼ੀ-ਕਾਵਿ, ਗੁਰਮਤਿ-ਕਾਵਿ, ਕਿੱਸਾ-ਕਾਵਿ ਅਤੇ ਬੀਰ-ਕਾਵਿ	40
2.	ਪੰਜਾਬੀ ਵਾਰਤਕ:− ਪੰਜਾਬੀ ਸੂੈਜੀਵਨੀਆਂ ਵਿੱਚੋਂ ਲਏ ਅੰਸ਼	22
3.	ਸਾਹਿਤ ਰੂਪ:− ਕਵਿਤਾ,ਨਿਬੰਧ,ਨਾਵਲ,ਨਿੱਕੀ ਕਹਾਣੀ, ਜੀਵਨੀ, ਸੈੂਜੀਵਨੀ, ਸਫ਼ਰਨਾਮਾ	13
4.	ਛੰਦ, ਅਲੰਕਾਰ, ਰਸ	15
ਕੁੱਲ ਅ	ਮੇਕ	90

ਅਧਿਆਪਕਾਂ, ਵਿਦਿਆਰਥੀਆਂ, ਪੇਪਰ ਸੈੱਟਰਾਂ ਅਤੇ ਪਰੀਖਿਅਕਾਂ ਲਈ ਵਿਸ਼ੇਸ਼ ਹਿਦਾਇਤਾਂ।

- ਪ੍ਰਸ਼ਨ ਨੰ: 1 ਸਮੁੱਚੇ ਪਾਠ-ਕ੍ਮ ਦੇ ਆਧਾਰ 'ਤੇ 1● ਅੰਕਾਂ ਦੇ ਵਸਤੂ-ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਇਹ ਪ੍ਰਸ਼ਨ ਬਹੁ-ਚੋਣ, ਠੀਕ / ਗ਼ਲਤ, ਖ਼ਾਲੀ ਥਾਂਵਾਂ ਜਾਂ ਇੱਕ ਜਾਂ ਦੋ ਸ਼ਬਦਾਂ ਵਿੱਚ ਉੱਤਰ ਦੇਣ ਵਾਲ਼ੇ ਹੋਣਗੇ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹੋਵੇਗੀ :-
 - (ੳ) ਮੱਧ-ਕਾਲੀਨ ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ):- 4 ਅੰਕ, ਸੂਫ਼ੀ-ਕਾਵਿ, ਗੁਰਮਤਿ-ਕਾਵਿ, ਕਿੱਸਾ-ਕਾਵਿ ਅਤੇ ਬੀਰ-ਕਾਵਿ ਵਿੱਚੋਂ ਇੱਕ-ਇੱਕ ਪ੍ਸ਼ਨ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਪ੍ਸ਼ਨ ਰਚਨਾ ਦੇ ਕਵੀ/ਕਵੀ ਦੀ ਰਚਨਾ ਅਤੇ ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਦਿੱਤੀ ਪਾਠ-ਸਮਗਰੀ 'ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ।
 - (ਅ) **ਆਪ–ਬੀਤੀਆਂ:** 2 ਅੰਕ, ਇੱਕ ਪ੍ਰਸ਼ਨ ਸ੍ਵੈਜੀਵਨੀ ਅੰਸ਼ ਦੇ ਲੇਖਕ ਸੰਬੰਧੀ/ਲੇਖਕ ਦੇ ਸ੍ਵੈਜੀਵਨੀ ਅੰਸ਼ ਸੰਬੰਧੀ ਅਤੇ ਦੂਜਾ ਪ੍ਰਸ਼ਨ ਪਾਠ–ਪੁਸਤਕ ਵਿੱਚ ਨਿਰਧਾਰਿਤ ਪਾਠ ਸਮਗਰੀ 'ਤੇ ਆਧਾਰਿਤ ਹੋਵੇਗਾ।
 - (ੲ) **ਸਾਹਿਤ-ਬੋਧ:** 4 ਅੰਕ, ਇੱਕ ਪ੍ਰਸ਼ਨ ਸਾਹਿਤ–ਰੂਪ ਨਾਲ਼ ਸੰਬੰਧਿਤ, ਇੱਕ ਪ੍ਰਸ਼ਨ ਅਲੰਕਾਰ ਨਾਲ਼, ਇੱਕ ਪ੍ਰਸ਼ਨ ਛੰਦ ਨਾਲ਼ ਅਤੇ ਇੱਕ ਪ੍ਰਸ਼ਨ ਰਸ ਨਾਲ਼ ਸੰਬੰਧਿਤ ਹੋਵੇਗਾ।

1●×1=1● ਅੰਕ

- ਪ੍ਰਸ਼ਨ ਨੰ: 2 'ਮੱਧ–ਕਾਲੀਨ ਪੰਜਾਬੀ–ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ)' ਦੇ 'ਸੂਫ਼ੀ–ਕਾਵਿ', 'ਗੁਰਮਤਿ–ਕਾਵਿ', 'ਕਿੱਸਾ–ਕਾਵਿ' ਅਤੇ 'ਬੀਰ–ਕਾਵਿ' ਵਾਲ਼ੇ ਭਾਗ ਵਿੱਚੋਂ ਚਾਰ ਕਾਵਿ–ਟੋਟੇ ਦੇ ਕੇ ਕਿਸੇ ਦੋ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ । ਹਰ ਪ੍ਰਸੰਗ ਲਈ 3 ਅਤੇ ਵਿਆਖਿਆ ਦੇ 5 ਅੰਕ ਹੋਣਗੇ। 8+8=16 ਅੰਕ
- ਪ੍ਰਸ਼ਨ ਨੰ: 3 'ਮੱਧ–ਕਾਲੀਨ ਪੰਜਾਬੀ–ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ)' ਪੁਸਤਕ ਦੇ ਕਵਿਤਾ ਭਾਗ ਵਿੱਚੋਂ ਕੋਈ ਤਿੰਨ ਰਚਨਾਵਾਂ ਦੇ ਨਾਂ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦਾ ਕੇਂਦਰੀ ਭਾਵ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 5 ਅੰਕ
- ਪ੍ਰਸ਼ਨ ਨੰ: 4 'ਮੱਧ-ਕਾਲੀਨ ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ)' ਪੁਸਤਕ ਦੇ ਇਤਿਹਾਸ ਭਾਗ ਵਿੱਚੋਂ 'ਸੂਫ਼ੀ-ਕਾਵਿ', 'ਗੁਰਮਤਿ-ਕਾਵਿ', 'ਕਿੱਸਾ- ਕਾਵਿ' ਅਤੇ 'ਬੀਰ-ਕਾਵਿ' ਨਾਲ਼ ਸੰਬੰਧਿਤ ਪਾਠਾਂ ਅਤੇ ਪਾਠ- ਅਭਿਆਸ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।

15 ਅੰਕ

- ਪ੍ਰਸ਼ਨ ਨੰ: 5 'ਆਪ-ਬੀਤੀਆਂ' ਪਾਠ-ਪੁਸਤਕ ਅਤੇ ਪਾਠ-ਅਭਿਆਸਾਂ ਉੱਤੇ ਆਧਾਰਿਤ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲ਼ੇ ਸੱਤ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਅਤੇ ਉਹਨਾਂ ਵਿੱਚੋਂ ਕਿਸੇ ਪੰਜ ਦੇ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 5×4=2● ਅੰਕ
- ਪ੍ਰਸ਼ਨ ਨੰ: 6 'ਸਾਹਿਤ-ਬੋਧ' ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਕਿਸੇ ਤਿੰਨ ਸਹਿਤ ਰੂਪਾਂ ਦੇ ਨਾਂ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਬਾਰੇ ਨੋਟ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 12 ਅੰਕ
- ਪ੍ਰਸ਼ਨ ਨੰ: 7 'ਸਾਹਿਤ-ਬੋਧ' ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਦੋ ਛੰਦ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਬਾਰੇ ਉਦਾਹਰਨਾਂ ਸਹਿਤ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 4 ਅੰਕ
- ਪ੍ਰਸ਼ਨ ਨੰ: 8 'ਸਾਹਿਤ-ਬੋਧ' ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਦੋ ਅਲੰਕਾਰ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਬਾਰੇ ਉਦਾਹਰਨਾਂ ਸਹਿਤ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 4 ਅੰਕ
- ਪ੍ਰਸ਼ਨ ਨੰ: 9 'ਸਾਹਿਤ-ਬੋਧ' ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਦੋ ਰਸ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਬਾਰੇ ਉਦਾਹਰਨਾਂ ਸਹਿਤ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 4 ਅੰਕ

ਨਿਰਧਾਰਿਤ ਪਾਠ-ਪੁਸਤਕਾਂ :-

- 1. ਮੱਧ-ਕਾਲੀਨ ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ)
- 2. ਆਪ-ਬੀਤੀਆਂ
- 3 ਸਾਹਿਤ-ਬੋਧ

ਪ੍ਕਾਸ਼ਕ: ਪੰਜਾਬ ਸਕੂਲ ਸਿੱਖਿਆ ਬੋਰਡ।

7. HINDI

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	पाठ्यकम :		
	कक्षा : बारहवीं	पूर्णांक - 90	
	समय : 3 घंटे विषय : हिंदी	सी.सी.ई - 10	
		o ta.	
	विषय वस्तु	अंक	
	भाग-क : अति लघूत्तर प्रश्न (वस्तुनिष्ठ प्रश्न)	10	
	भाग-ख : पाठ्य -पुस्तक (हिंदी पुस्तक-12)	35	
	भाग-ग -हिंदी साहित्य का इतिहास (रीतिकाल एवं आधुनिक काल)	10	
	भाग-घ - रचनात्मक लेखन : निबंध लेखन	10	
		15	
	भाग-ङ - व्यावहारिक ज्ञान 1.पंजाबी गद्यांश का हिंदी अनुवाद	(5)	
	1.पजाबा गद्याश का हिंदा अनुवाद 2.पारिभाषिक शब्दावली (J से लेकर Z तक)	(6)	
	2.पारिभाषिक शब्दावला (उ.स. लक्स 2.पक) 3.विज्ञापन लेखन, सूचना लेखन	(4)	
	उ.विशायन राखन, सूचना राखन		
	भाग-च - छंद एवं अलंकार	10	
	1. छंद (दोहा,सोरठा,सवैया,कवित्त,चौपाई)	(5)	
	2. अलंकार (अनुपास,उपमा,रूपक,यमक,श्लेष)	(5)	
	पंजाब स्कूल शिक्षा बोर्ड द्वारा निर्घारित पाठ्य - पुस्तकें		
	1. हिंदी पुस्तक-12		
	 हिंदी भाषा बोध और व्याकरण (ग्यारहवीं और बारहवीं कक्ष 	ा के लिए)	
	3. हिंदी साहित्य का इतिहास (ग्यारहवीं और बारहवीं कक्षा के		
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प्रश्न-पत्र की रूपरेखा (संशोधित)

कक्षा : बारहवी

पूर्णांक - 90

समय : 3 घंटे

विषय : हिंदी

सी.सी.ई - 10

- प्रश्न-पत्र में कुल 16 प्रश्न होंगे।
- सभी प्रश्न हल करने अनिवार्य होंगे ।
- प्रश्न-पत्र के छह भाग (क से च तक) होंगे।

भाग-क : अति लघूत्तर प्रश्न (वस्तुनिष्ठ प्रश्न)

10

प्रश्न-1 में (i) से (X) तक वस्तुनिष्ठ प्रश्न पूछे जायेंगे। प्रत्येक प्रश्न एक अंक का होगा। ये प्रश्न एक शब्द से एक वाक्य तक के उत्तर वाले अथवा हाँ/नहीं अथवा रिक्त स्थानों की पूर्ति करो अथवा सही/गलत अथवा बहुवैकल्पिक उत्तरों वाले,किसी भी प्रकार के ही सकते हैं।

- (i) से (iii) तक समास (अन्ययीभाव, तत्पुरुष, बहुब्रीहि तथा द्वंद्व) से सम्बन्धित तीन $1 \times 3 = (3)$ वस्तुनिष्ठ प्रश्न पूछे जायेंगे।
- (iv) पद परिचय से सम्बन्धित एक वस्तुनिष्ठ प्रश्न पूछा जायेगा।
- (v) से (vi) तक पाठ्य-पुस्तक (हिंदी पुस्तक-12) में से दो वस्तुनिष्ठ प्रश्न पूछे जायेंगे।
- (vii) से (viii) तक हिंदी साहित्य का इतिहास (रीतिकाल एवं आधुनिक काल) में से दो वस्तुनिष्ठ प्रश्न पूछे जार्येगे।
- (ix) छंद में से एक वस्तुनिष्ठ प्रश्न पूछा जायेगा। (1) (1)
- (x) अलंकार में से एक वस्तुनिष्ठ प्रश्न पूछा जायेगा।

भाग-ख (पाठ्य -पुस्तक)

- प्रश्न-2 (i) हिंदी पुस्तक-12 में संकलित 'प्राचीन काव्य' में से दो पद्यांश दिये जायेंगे जिनमें से एक पद्यांश की सप्रसंग व्याख्या लिखने के लिये कहा जायेगा।प्रसंग के लिये 1 अंक तथा व्याख्या के लिये 4 अंक निर्धारित हैं।
 - (ii) हिंदी पुस्तक-12 में संकलित 'आधुनिक काव्य' में से दो पद्यांश दिये जायेंगे जिनमें से एक पद्यांश की सप्रसंग व्याख्या लिखने के लिये कहा जायेगा।प्रसंग के लिये 1 अंक तथा व्याख्या के लिये 4 अंक निर्धारित है।
- प्रश्न-3 (i) 'प्राचीन काव्य' की विषय वस्तु से सम्बन्धित दो लघूत्तर प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 50 शब्दों में लिखने के लिये कहा जायेगा।
 - (ii) 'आधुनिक कान्य' की विषय वस्तु से सम्बन्धित दो लघूत्तर प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 50 शब्दों में लिखने के लिये कहा जायेगा।
- प्रम-4 पाट्य पुस्तक में संकलित गद्य भाग में से दो गद्यांश दिये जायेंगे जिनमें से एक गद्यांश की सप्रसंग व्याख्या लिखने के लिये कहा जायेगा। प्रसंग के लिये 1 अंक तथा व्याख्या के लिये 4 अंक निर्धारित है।
- प्रवन-5 पाठ्य पुस्तक में संकलित गद्य भाग की विषय वस्तु से सम्बन्धित दो निबन्धात्मक प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 80 शब्दों में लिखने के लिये कहा जायेगा।
 - नोट :-प्रश्न-पत्र निर्माता पाठ्य पुस्तक में संकलित गद्य भाग (निबन्ध, कहानी एवं एकांकी) की सभी विधाओं को पूर्ण प्रतिनिधित्व दे।

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प्रश्न-6	पाठ्य-पुस्तक में संकलित 'निबन्ध' भाग में से दो लघूत्तर प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 50 शब्दों में लिखने के लिये कहा जायेगा। (3)	
प्रश्न-7	पाठ्य-पुस्तक में संकलित 'कहानी' भाग में से दो लघूत्तर प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 50 शब्दों में लिखने के लिये कहा जायेगा। (3)	
प्रश्न-8	पाठ्य-पुस्तक में संकलित 'एकांकी' भाग में से दो लघूत्तर प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 50 शब्दों में लिखने के लिये कहा जायेगा।	
	भाग-ग हिंदी साहित्य का इतिहास (रीतिकाल एवं आधुनिक काल) 10	
प्रश्न-9	इस प्रश्न में हिंदी साहित्य के 'रीनिकाल'की प्रमुख परिस्थिनियों , प्रमुख प्रवृत्तियों एव प्रमुख कवियों से सम्बन्धित दो निबन्धात्मक प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 80 शब्दों में लिखने के लिये कहा जायेगा।	
प्रश्न-1() इस प्रश्न में हिंदी साहित्य के 'आधुनिक काल'की प्रमुख परिस्थितियों , प्रमुख प्रवृत्ति एवं प्रमुख कवियों से सम्बन्धित दो निबन्धात्मक प्रश्न पूछे जायेंगे जिनमें से एक प्रका उत्तर लगभग 80 शब्दों में लिखने के लिये कहा जायेगा।	ायों इन (5)
	भाग-घ (रचनात्मक लेखन) 10	
प्रश्न-1	1 यह प्रश्न निबंध रचना से सम्बन्धित होगा। कोई चार विषय देकर उनमें से किसी एक विषय पर लगभग 250 शब्दों में निबंध लिखने के लिये कहा जायेगा । भूमिका के 2 अंक, विषय वस्तु के 6 अंक और उपसंहार के 2 अंक निर्धारित हैं । 2+6+2= (1	
	भाग-ङ (व्यावहारिक ज्ञान) 15	
प्रश्न-1	2 इस प्रश्न में लगभग 50 शब्दों का पंजाबी में एक गद्यांश दिया जायेगा जिसका अनुवाद हिंदी में लिखना होगा ।	(5)
प्रश्न-1	3 अंग्रेज़ी के छह पारिभाषिक शब्द दिये जायेंगे जिनमें से किन्हीं चार शब्दों के हिंदी रूप लिखकर वाक्यों में प्रयोग करने के लिये कहा जायेगा। $1\frac{1}{2} \times 4$	(6)
प्रश्न-1	4 विज्ञापन और सूचना से सम्बन्धित दो प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लिखने के लिये कहा जायेगा।	(4)
	भाग-च (छंद एवं अलंकार)	10
प्रश्न-	15 कोई दो छंद देकर किसी एक छंद का लक्षण एवं उदाहरण लिखने के लिये कहा जायेगा।	(5)
प्रश्न-	16 कोई दो अलंकार देकर किसी एक अलंकार की पिरभाषा एवं उदाहरण लिखने के लिये कहा जायेगा।	(5)

CLASS-XII 8. ENGLISH ELECTIVE

Time: 3Hrs Theory: 90Marks CCE: 10 Marks

Total: 100 Marks

(10 marks)

STRUCTURE OF QUESTION PAPER Part -A

Objective type question No.1 will be compulsory

- It will consist of 10 objective type questions carrying one mark each. Objective type questions may include questions with one word to one sentence answer or fill in the blank or true/false or multiple choice type questions.
 - 3 Dear to All the Muses
 - 3 The Literary Petals
 - Select One Act Plays/ Pride and Prejudice 2
 - Grammar 2

PART B- DEAR TO ALL THE MUSES

Text for detailed study

(19 marks)

Comprehension of a passage:

10

3

Comprehension to be tested with the help of the following techniques:

- Three short- answer questions
- (ii) Matching exercise (three words to be matched out of four words)3
- (iii) Fill in the blanks (Two sentences) 2
- 2 Finding one word for a given expression from the passage. (iv)
- III. 3 out of 4 short answer type questions based on the contents of different lessons (to be answered in 50-60 words each).

Along with the Exercises, the questions can be asked from content also.

PART C- THE LITERARY PETALS (24 marks)

Text for detailed study

IV. Four short answer type questions (to be answered in 50-60 word (a) stories and 2 from poems as suggested at the each) 2 from end of each lesson, with internal choice in each question.

 $3 \times 4 = 12$

- (b) One essay type (long answer type) comprehension question (with internal choice) as suggested in the exercises at the end of each
- Explanation with Reference to the Context (POEMS ONLY) of a given stanza/lines.

OR

A question on summary/substance/development of thought etc. of a poem (with internal choice)

PART D-SELECT ONE-ACT PLAYS/PRIDE AND PREJUDICE

Text for non-detailed study (15 marks)

SELECT ONE-ACT PLAYS

VI (a) Explanation with Reference to the Context. 5

- 5 (b) Character – Sketch (with internal choice) (c) Question on theme/incident/episode etc. 5 OR PRIDE AND PREJUDICE (a) Character sketch (with internal choice) 8 (b) Theme/Incident/Episode (with internal choice) 7 PART-E COMPOSITION & VOCABULARY (22marks) VII Paragraph Writing (one out of five) 6 VIII Do as directed type questions covering the following items: I. Change of Voice 2 II. Change of Narration 2 III. Combining two simple sentences into one use linkers etc. 2 IV. Use of Modals V. Transformation of sentences (use of gerunds, to-infinitive, participles, adverbials) **Note**: The above question will be based as far as possible, on the text books. IX TRANSLATION (Need not be text based, should be simple, can be from 6 anywhere outside text books.) From Vernacular into English A small running passage of about 5/6 sentences. Note: A special question in lieu of translation for foreign students: Paragraph/Composition **SYLLABUS** PART-A DEAR TO ALL THE MUSES LESSON The Horse 1. 2. Warrior against Weeds 3. A Most Forgiving Ape 4. A Young Turkish Catastrophe A Tiny Sanctuary
 - 6. Mano Majra
 - 7. Jamaican Fragment
 - 8. The Heritage of India
 - 9. Gold in the North
 - 10. My Greatest Olympic Prize
 - 11. The Green Revolution
 - 12. The Snob
 - 13. Most Dear to All the Muses
 - 14. The Case For the Defence
 - 15. On My Seventieth Birthday

LITERARY PETALS:

LESSON:

- 1. Hind ki Chadar Sri Guru Teg Bahadur
- 2. Border Guards (Poem)
- 3. My Heart Leaps when I Behold (Poem)
- 4. The Gambling Match
- 5. The Quality of Mercy (Poem)
- 6. The Fancy Dress Show (Poem)
- 7. The Eternal Why
- 8. What Though the Field be Lost (Poem)
- 9. The Song of India (Poem)
- 10. After Twenty Years
- 11. The Tree Fell down (Poem)
- 12. The World Today is Wild with the Delirium of Hatred (Poem)
- 13. Attacked by Pit Bulls
- 14. Slave ? No Master (Poem)
- 15. The Unrest of Desire (Poem)
- 16. The Boy Who Broke the Bank
- 17. Still Life (Poem)
- 18. Is This The End? (Poem)
- 19. The Conjuror's Revenge
- 20. Guru (Poem)
- 21. A River Tern on the Ganga (Poem)
- 22. The Ant and the Grasshopper
- 23. A Psalm of Life (Poem)
- 24. Hymn of Swaraaj (Poem)

SELECT ONE-ACT PLAYS

- 1. The Bishop's Candlesticks
- 2. The Miracle-Merchant
- 3. The King's Warrant
- 4. The Man Who Wouldn't Go to Heaven
- 5. The Monkey's Paw

Novel: Pride & Prejudice

PART-B

COMPOSITION, VOCABULARY, APPLIED GRAMMAR

Paragraph Writing/ Extended Compostion

Translation: 1 Paragraph from Hindi/Punjabi to English.

APPLIED GRAMMAR: Do as directed type questions covering the following items

- (i) Change of Narration
- (ii) Change of Voice

- (iii) Joining two simple sentences into one using linkers etc
- (iv) Use of Modals
- (v) Transformation of Sentences (Use of gerunds, Infinities, Participles adverbials)

The books Prescribed & Published by the Punjab School Education Board.

- 1. Dear to All the Muses
- 2. The Literary Petals
- 3. Select One Act Plays
- 4. Pride and Prejudice

Note: All the lessons in the above books are included in the syllabus. No part has been deleted.

CLASS-XII 9. URDU

10	SYLLABUS	OF URI	DU ELECTIVE		
	CLASS				
NCERT N	إِلاَّابِ) ثَائِعٌ كُروهِ.EW DELHI	รอธิอภ์เ	گدیان اور: (مارهوی جماعت کیلتے	81.5	ost.
بادس على گڙھ بادس على گڙھ	مارف خال شائع کرده: ایج یشنل بگ	از دا کناهمه	گاه به پیمضاین وانشاه برداز کی بیشه دو		r y. Ta
			معدومه باسباق اور شعری تخلیقات نصاب میں شا		
		المامين عقد لقم	, 6 a - a - a - a - a - a - a - a - a -	در پادیر صدنتر	رت.
	اۋلشب دېرم کې رونق، پروانه بعض	1	خوجی۔ایک مطالعہ	*	
2.90	زمال وركال تقدم ب ما مع بمحرة	2	موری-ایک مصاحد امراؤ جان ادا		
		-3	الرادجان!!!		
			برن موه اس آباد فراب میں (انتخاب)		
	رقع کار ان	5	ال ابا دراج بین در عاب غالب جدید شعراه کی ایک مجلس میں	-4	
			عائب جدید سراوی ایک کلیمالدین احمد		
3 گھنے	رزد				. 7
				ر چینبر: (نامبر:10	-
5x2=10			رولازی موالات کے جوابات تر کر کرنا۔		کل نمبر
5x2=10	- 17 A 2 30 1 1 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 1 6 1	رما راقي -	رولاری موانات میں بورہ سے مرح سات ہال کے حوالے سے تین دیئے ملحے نثر پا		-1
. 10	40) 04/11/04/05/02	روں ہیں۔ گارہ	ہاں بے ہوا سے بھی ایسے سے مربع مدے عامل میں قامل سے کسی آئی سماری سماریاں	705	-11
7		-100	یں شال اسباق میں ہے کی آیک کا خلاہ استان میں مسلم میں میں انسان کا ہا	نصاب	-111
			ل امناف میں ہے کی آیک پرنوٹ لکھنا منازر		-IV
10	r.S. 5 1 . 1 .		، انشائی، سنرنا در در مراد می ایر سرد		
10			ا بی نثر نگاروں میں سے سی ایک کے حال بید، سجا وظہیر، کرٹر		-V

10	منع آئیراشعار میں ہے کئی پانٹے کی تشریح لکھنا۔	
10	یل شعراء میں سے کسی ایک شاعر کے حالات زندگی اور شاعری پرنوٹ لکھنا۔	الا_ من5ز
	طباطبائی، اتبال، ن-م-راشد، على مردار جعفری، عميق حقی،	W.
	راخَز، ناصركانمي ، معين احن جذب، الطاف حسين حال	
8	يل نظم كامركزى خيال بيان كرنا .	۷۱- کی آب
5	کے آٹھ الفاظ میں ہے کسی یانچ کے معانی تحریر کرنا۔	ا۔ دیے۔
10	ئے چارعنوانات میں ہے کسی ایک عنوان پر 250 الفاظ کا مضمون تر کر تا۔	ا ريا
	نے والول اور امتحان لینے والوں کیلئے ضروری ہدایات:	لباه، پرچه بنا.
10 _£ n,	ں تمام نساب پر شمل ہوگا۔ اس میں یا پٹی مخصر سوالات ہو چھے جا کیں گے ہر سوال کیلیئے وہ نمبر	
مان أردو مين تشريخ -	، ومباق کے حوالے سے نصابی امہاق میں ہے دیئے گئے تین نثر پاروں میں ہے گئی دو کی آ م : :	ال نبراا -ساز
ردونول نثریارے	بانشیم اس طرح بهوگی: مبل کانا مالیک نبر، نثر نگار کانا م ایک نبر، آسمان اُردو میں آنشر ی ^{سی} تبی نبه	رناہوگی۔نمبروکی
10	.E	بافمرول كي بو.
10	نساب میں ٹال کی آیک سبق کا خلاصہ کیلئے 10 نمبرر کھے گئے ہیں۔	الغبرالا
7 -	ر پورنا ڑ ، انشا ئيداور سفرنامدين سے كى ايك كافتقر تعرف كرائے كيليے 7 نمبرد كے سے يور	
10	نصاب میں شامل کمی آیک نشرنگار کا سوائی تغارف چیش کرنے کیلئے 10 نمبر ہو گلے۔	
ئے۔ 10	وية كفا ته اشعارين سي كى يا في اشعار كانشرة كرنا بهوكى ، برايك شعر كيلية دونم برو	ال نمرا٧-
10	تحی آیک شاعر کے حالات زندگی اور شاعری کوئتھرآ بیان کرنے کیلئے 10 نمبر ہو تگے۔	الغبراالا
8	نساب کا ظموں میں سے کی ایک کا مرکزی خیال تحریر کرنے کے 8 فمبر ہو گئے۔	ال قبرااالا
يك معانى كيلية ابكه	فسالي كتاب من عدية مُحَة أخوالفاظ من عبي في كمعاني تحريكرت موسِّق مبرآ	لأبرXI
5	_6n,i	
م كيليخ تين فبر	مضمون أوليم كيليح دل نمبرر كحے صحة بين ، آ مّا لا كيليج تين نمبر ، فنس مضمون كيليج جارنمبر ، اختيا	ل ^ب رx-
10	- णु ह र् र्	

Sugo

1●. विषय : संस्कृत

कक्षा : बारहवीं पाठ्यक्रम 2018-19

- प्रश्नपत्र में कुल 11 प्रश्न होंगे।
- प्रश्न पत्र में तीन भाग (क से ग तक) होंगे।

भाग - क

अति लघूत्तर प्रश्न (वस्तुनिष्ठ प्रश्न)

प्रश्न-1 में (i) से (x) तक वस्तुनिष्ठ प्रश्न पूछे जायेंगे । प्रत्येक प्रश्न एक अंक का होगा ।ये प्रश्न एक शब्द से एक वाक्य तक के उत्तरों वाले अथवा हाँ/नहीं अथवा सही/गलत अथवा बहुवैकल्पिक उत्तरों वाले, किसी भी प्रकार के हो सकते हैं ।यह प्रश्न पाठ्यक्रम से ही पूछे जायें।

- (i) से (ii) तक शब्द रूप (पुल्लिंग ,स्त्री लिंग तथा नपुंसकलिंग) से सम्बन्धित दो वस्तुनिष्ठ प्रश्न पूछे जायेंगे ।
- (iii) से (iv) तक धातुरूप (लट्लकार, लोटलकार्,लङलकार् , विधिलिङ्, लृट्लकार) से सम्बन्धित दो वस्तुनिष्ठ प्रश्न पूछे जायेंगे ।
- (v) से (vi) तक समास तत्पुरुष (सप्तमी विभिक्त तक) नञ्।, अलुक से सम्बन्धित दो वस्तुनिष्ठ प्रश्न पूछे जायेंगे
- (vii) से (viii) तक कृदन्त प्रत्यय से सम्बन्धित दो वस्तुनिष्ठ प्रश्न पूछे जायेंगे
- (ix) से (x) तक अलंकार से सम्बन्धित दो वस्तुनिष्ठ प्रश्न पूछे जायेंगे

	भाग -ख
	(पाठ्य पुस्तक के 1 से 19 तक पाठ)
2	गद्यांशों का हिन्दी या पंजाबी या अंग्रेज़ी में अनुवाद ।
3	पद्यों का हिन्दी या पंजाबी या अंग्रेज़ी में प्रसंग सहित अर्थ ।
4	पाठों के अभ्यासों में से हिन्दी में प्रश्न ।
5	पाठों के अभ्यासों में से संस्कृत लघु प्रश्न ।
6	पाठों के अभ्यासों में से संस्कृत शब्दों का वाक्यों में प्रयोग ।
	अथवा
	व्यावहारिक संस्कृत शब्दों का हिन्दी में अनुवाद ।
7	पाठों के अभ्यासों में से यथानिर्दिष्ट परिवर्तन ।
8	प्राचीन लेखकों/कवियों का साहित्यिक परिचय ।
	भाग-ग (व्याकरण भाग)
9	(क) शब्द रूप: (पु.) गो, पितृ, राजन्, चन्द्रमस्, ।
	(नपुं.) मित्र, अक्षि, पयस् ।
	(स्त्री.) बाला, स्त्री, वधू, ।
	(ख) धातु रूप : (लट्लकार, लोट्, लङ्, विधिलिङ्, लृटलकार्)
	भ्वादिगण : (परस्मैपद) भू , व्रज्, खाद् , घ्रा ।
	अदादिगण : (प.) अस् , हन् ।
	चुरादिगण : (प.) दण्ड् ।
	तनादिगण : (प.) कृ ।

	क्रयादिगण : (प.) ज्ञा , ग्रह् ।
	(ग) कारक : अशुद्ध- शुद्ध वाक्यों पर आधारित ।
10	(क) समास : तत्पुरुष (सप्तमी विभिक्त तक) नহ।, अलुक् ।
	(ख) प्रत्यय: कृदन्त प्रत्यय- तन्यत् , अनीयर् , यत् , ल्युट् ,
	तुमुन् ।
	(ग) अलंकार: और छंद -
	(i) शब्दालंकार - अनुप्रास, यमक।
	(ii) अर्थालंकार - रूपक, उत्पेक्षा, उपमा,
	अर्थान्तरन्यास।
	अथवा
	छन्द :- अनुष्टुप्, वंशस्थ, मालिनी, शिखरिणी, पंचचामरम्,
	वसन्ततिलका ।
11	निबन्ध : नीचे लिखे विषयों पर संस्कृत में सरल निबन्ध (लगभग
	100 शब्दों में)
	सत्संगति, परोपकार:, आदर्श - छात्र:, मम प्रिय-
	पुस्तकम्, किश्चद् महापुरुष:, किश्चद् उत्सव:,
	समाचार पत्राणां लाभा:।
	अथवा
	हिन्दी वाक्यों का संस्कृत में अनुवाद ।(1 से 15 अभ्यास तक)
	निर्धारित पाठ्य पुस्तक : संस्कृत सौरभम्- 12 पंजाब स्कूल शिक्षा बोर्ड द्वारा प्रकाशित

विषय: संस्कृत बारहवीं श्रेणी प्रश्न- पत्र की रूपरेखा

समय: 3 घण्टे	कुल अंक : 90
	मी मी है •10

	सा. सा	તા. તા. ફ . 1 0	
1	भाग क अति लघूत्तर प्रश्न (वस्तुनिष्ठ प्रश्न)	1x10=10	
	भाग ख		
2	(पाठ्य पुस्तक) तीन गद्यांश दिए जाएं जिनमें से दो का अनुवाद हिन्दी या पंजाबी या अंग्रेज़ी में	5x2=10	
	करने को कहा जाए ।		
3	तीन पद्य दिए जाएं जिनमें से दो का प्रसंग सिहत अर्थ हिन्दी या पंजाबी या अंग्रेज़ी		
	में लिखने को कहा जाए।दो अंक प्रसंग के तीन अंक अर्थ के निधारित है	5x2=10	
4	पाठों के अभ्यासों में से पांच प्रश्न हिन्दी में पूछे जाएं, जिनमें से तीन का उत्तर		
	हिन्दी में लिखने को कहा जाए।	3x2=6	
5	पाठों के अभ्यासों में से संस्कृत में पांच लघु प्रश्न दिए जाएं । जिनमें से तीन का		
	उत्तर संस्कृत में लिखने को कहा जाए।	3x2=6	
5	पाठों के अभ्यासों में से छ: संस्कृत शब्द दिए जाएं जिनमें से चार शब्दों का		
	वाक्यों में प्रयोग करने को कहा जाए।		
	अथवा		
	आठ व्यावहारिक संस्कृत शब्द दिए जाएं जिनमें से चार शब्दों का हिन्दी में	1x4=4	
	अनुवाद करने को कहा जाए।		
7	यथानिर्दिष्ट परिवर्तन के छ: वाक्य दिए जाएं जिनमें से चार वाक्यों में परिवर्तन		
	करने को कहा जाए।	1 x4=4	
3	प्राचीन लेखकों/कवियों के साहित्यिक परिचय से संबंधित सात प्रश्न पूछे जाएं		
	जिनमे से पाँच का उत्तर लिखने को कहा जाए ।	1 x5=5	
9	भाग=ग (व्याकरण भाग) (क) पाठ्यक्रम में दिए गये शब्द रूपों में से छ: शब्दों के रूप किसी एक विभक्ति		
	के तीनों वचनों में पूछे जायें जिनमें से केवल चार शब्दों के रूप लिखने हों ।	4x1½=6	
	(ख) पाठ्यक्रम में दिए गये धातु रूपों में से छ: धातुओं के रूप किसी एक लकार		
	के एक पुरुष के तीनों वचनों में पूछे जायें जिनमें से केवल चार धातुओं के रूप	4x1½=6	
	लिखने हों ।		
	(ग) कारक सम्बन्धी अशुद्धि वाले सात वाक्य दिये जायें जिनमें से पाँच वाक्यों	5x1=5	
	को शुद्ध करने को कहा जाये।		
10	(क) पाठ्यक्रम में दिए गए समासों से संबंधित पाँच समस्त पद दिए जाएं जिनमें	3x1=3	
	से तीन का विग्रह करने को कहा जाए।		
	(ख)पाठ्यक्रम में दी गई धातुओं के साथ प्रत्यय लगाने के लिए पाँच धातुएं तथा	3×1=3	
	प्रत्यय दिए जाएं जिनमें से तीन करने को कहा जाए ।		
	(ग) पाठ्यक्रम में दिए भेद रहित अलंकारों से संबंधित चार प्रश्न दिए जाएं जिनमें		

से दो शब्दालंकार तथा दो अर्थालंकार हों तो उचित है । चार अलंकारों में से केवल दो की परिभाषा तथा उदाहरण लिखनें अपेक्षित हो । परिभाषा तथा उदाहरण का एक-एक अंक निश्चित है ।

2x2=4

पाठ्यक्रम में निश्चित छंदों से संबंधित चार प्रश्न दिए जाएं जिनमें से दो मात्रिक तथा दो वर्णिक छंद हों तो उचित है । चार छंदों में से केवल दो की परिभाषा तथा उदाहरण लिखने अपेक्षित हो परिभाषा तथा उदाहरण का एक-एक अंक निश्चित है ।

11 पाठ्यक्रम में निश्चित् तीन निबंध देकर किसी एक विषय पर लगभग 100 शब्दों में निबंध लिखने को कहा जाए ।

प्रथवा 8

13 हिन्दी वाक्य दिए जाएं जिनमें से आठ वाक्यों का संस्कृत में अनुवाद करने को कहा जाए ।

CLASS-XII 11. ARABIC

	Syllabus of Arabic Class XII
رآ بادی	
	نصاب میں شامل دروی (1 سے 25 تک) نظم (1 سے 5 تک)
ونت3 گفظ	تحریری پر چینمبر: 90 داخلی قعین نمبر: 10
	کل قبیر 100
3x5=15 - 4	ا نوے: پہلاسوال لاا ڈی ہے۔ دیئے گئے پانچ مختصر سوالات کے جوا ہات تریر کئے مختصر سوالات تریم ضاب پر مشتمل عول گے۔
(15)	ااعربی سے اردومیں ترجمہ کرنا۔
(10)	ااا یو بی الفاظ کے معاثی تحریر کرنا۔
(10)	١٧ عربي اشعار كي تشريح كرنا_ (نظمون كي اسباق س)
(15)	› - سى ايك نظم كامركزى شيال بيان كرنا-
(15)	الا اردوت عربي كالرجمه كرناب
(5)	VII-ماضی ہےمضارع اورمضارع سے ماضی بنانا۔
(5)	۷۱۱۱ عربی میں دیں تک عدد لکھنا۔

CLASS-XII 12. FRENCH

Time: 3 Hrs Theory: 70 Marks
Time: 9 minutes per Student Oral/Practical:20Marks

CCE: 10 Marks Total: 100 Marks

THEORY

1. Six (6) multiple-choice questions on general topic (civilization, grammar, vocabulary...) on lesson 1 to 13 of the text book to be asked and answered in French. Students are required to attempt all 10 questions. Each question will carry 1 mark.

10 Marks

2. Ten (10) Brief questions pertaining on lesson 1 to 13 of the text books to be asked and answered in French. Students are required to attempt any 5 questions. Each question will carry 1 mark.

10 Marks

- 3. Making of sentences in French with idiomatic expressions occurring in the text, 15 questions will be asked. Students are required to attempt any 10 questions.

 10 Marks
- 4. Questions on applied grammar based on the prescribed text (Refer of pages 252-253) of the prescribed text.10 Marks
- 5. Translation from English, Hindi, Punjabi or Urdu to French of an unseen passage of 10 short sentences.10 Marks
- 6. Translation from French into English, Hindi, Punjabi or Urdu of an unseen passage of 10 short sentences.10 Marks
- 7. Composition of an essay of about 200 words based on the vocabulary of text book.

 10 Marks

Book Prescribed

"Le français et la Vie II"

Author-G, MAUGER/BRUEZIERE, Publication Hachette

Course of Reading:

Lesson 1to 26

ORAL

Note: A group of 20 students will be examined in a 3 hours session.

1. Dictation from the prescribed passage.

5 Marks

- Reading a passage in French from the text and putting question on it and some general questions to be asked.

 10 Marks
- 3. Self Introduction 5 Marks

Book Prescribed

"Le français et la Vie II"
Author-G, MAUGER/BRUEZIERE, Publication Hachette
Course of Reading:
Lesson 1 to 26

CLASS-XII 13. GERMAN

Time: 3 Hrs Theory: 70 Marks
Time: 9 minutes per Student Oral/Practical: 20 Marks

CCE: 10 Marks Total: 100 Marks

THEORY

Note: The question paper will be set in German.

- 20 objective type questions (True/False, Jumbled words, Multiple Choice etc.)
- 2. Question of applied grammar based on the prescribed text book.

15

- 3. Comprehension of an unseen passage in German (Attempt One out of Two).
- 4. Official Letters of about 40 words with internal choice.
- 5. Write a short paragraph of about 100 words (attempt one out of three).

Book Prescribed

"Tangram aktull 2" (Kursbuch + Arbeitsbuch)" by Hueber. Niveau A2/1.

ORAL

Note: A Group of 20 students will be examined by the examiner in a three hours sessions.

- 1. Lesen Reading of a passage or an extract from the text book.

 10
- Vorstllung (Self Introduction): For example: Name, age, profession,
 place of living, family.

Book Prescribed

"Tangram aktull 2" (Kursbuch + Arbeitsbuch)" by Hueber. Niveau A2/1.

CLASS-XII 15. ECONOMICS (HUMANITIES GROUP)

Time: 3Hrs Theory: 90 Marks CCE: 10 Marks

Total: 100 Marks

STRUCTURE OF QUESTION PAPER

1. All questions are compulsory.

2. The question paper will comprise of 4 sections A, B, C and D of 33 sub parts (questions) in total. The question paper will carry:

SECTION- A

Objective Type Questions: Question No. 1 comprises of 10 sub parts (questions) I to X carry 1 mark each (ten questions). This type may include questions with one word to one sentence answer/ fill in the blanks/ true or false/ multiple choice type questions.

1×10= 10

SECTION-B

Very Short Answer Type Questions: Question No. 2 comprises of 10 sub parts (questions) I to X carrying 2 marks each. Answer to each question should be in about 30-35 words. Out of 10 questions 4 question will be numerical i.e. 2 from Part A and 2 from Part B. **2×10= 20**

SECTION- C

Short Answer Type Questions: Question No. 3 comprises of 9 sub parts (questions) I to IX carrying 4 marks each. Three questions out of 6 questions will be of internal choice and three questions will be numerical that is 1 from Part A and 2 from Part B. Answer to each question should be in about 60-70 words. **4×9= 36**

SECTION- D

Long Answer Type Questions: Question No. 4 comprises of 4 sub parts (questions) I to IV carrying 6 marks each. Answer to each question should be in about 150-200 words. Three will be 100% internal choice in these questions. From Part B out of two questions 1 question will be numerical.

4×6= 24

Note:- All units of the syllabus should be given adequate representation in the question paper.

Typology of Questions	Number of	Marks	Division of Syllabus		Total
	Questions	Division	Part A	Part B	Marks
			Unit 1to 4	Unit5 to 9	
Section-A Objective Type	Q.1	01 mark	5	5	10
Questions	(Q.I to X)				Marks
Section-B Very Short	Q.2	02 marks	5	5	20
Answer Type questions	(Q.I toX)				Marks
Section-C	Q.3	04 marks	5	4	36
Short Answer Type	(Q.I to IX)				marks
Questions					
Section-D	Q.4	06 marks	2	2	24
Long Answer Type	(Q.I to IV)				Marks
Questions	·				
Total	33		17	16	90

SYLLABUS

PART-A (INTRODUCTORY MICRO ECONOMICS)

Unit-1 INTRODUCTION

Micro Economics: Meaning; Difference between Micro and Macro Economics, Central Problems of an Economy, Production Possibility Curve and Opportunity Cost.

Unit-2 CONSUMER BEHAVIOUR AND DEMAND

- i. Consumer's Equilibrium: Meaning, Attainment of Equilibrium through Utility Approach (one and two commodity case).
- ii. Theory of Demand: Meaning of Demand, Types of Demands: Individual and Market Demand, Determinants of Demand, Demand Schedule, Demand Curve, Movement Along and Shift in Demand Curve.
- iii. Price Elasticity of Demand: Measurement of Price Elasticity of Demand- Percentage, Total expenditure and Geometric method.

Unit-3 PRODUCER BEHAVIOUR AND SUPPLY

- i. Production-Meaning, Concept of Production, Function: Returns to Factor and Returns to Scale.
- ii. Theory of Supply: Meaning of Supply, Types of Supply: Individual and Market Supply, Determinants of Supply, Supply Schedule, Supply Curve, Law of Supply, Movement along and shifts in supply curve, Price Elasticity of Supply, Measurement of Price Elasticity of Supply; Percentage and Geometric method.
- iii. Concepts of Costs: Short Run Cost Curves; Fixed and Variable Costs,Total, Average and Marginal Costs.
 - Concepts of Revenue: Total, Average and Marginal Revenue and their relationship.
- iv. Producer's Equilibrium with the help of MC and MR.

Unit-4 FORMS OF MARKET AND PRICE DETERMINATION

- Forms of Market: Perfect Competition, Monopoly, Monopolistic Competition-Their Meaning and Features.
- ii. Price Determination under Perfect Competition- Equilibrium Price, Effect of shifts in Demand and Supply.

PART-B (INTRODUCTORY MACRO ECONOMICS)

Unit-5 NATIONAL INCOME AND RELATED AGGREGATE

i. Basic Concept and Measurement of National Income (introduction only)

- ii. Macro Economics: Meaning, Circular flow of Income, Concepts of GDP, GNP, NDP, NNP (at market price and factor cost), National Disposable Income (Gross & Net); Private Income, Personal Income and Personal Disposable Income.
- iii. Measurement of National Income-Value Added Method, Income Method & Expenditure Method

Unit-6 DETERMINATION OF INCOME AND EMPLOYMENT.

- i. Aggregate Demand, Aggregate Supply and their Components.
- ii. Propensity to Consume and Propensity to Save (Average and marginal).
- iii. Meaning of Involuntary-Unemployment, Concept of Full Employment.
- iv. Determination of Equilibrium level of Income and Employment-Two sector model.
- v. Concept of Investment Multiplier and its working.
- vi. Problems of Excess and Deficient Demand. Measures to Correct Excess and Deficient Demand, Availability of Credit, Change in Government Spending.

Unit-7 MONEY AND BANKING

- i. Money: Meaning, Evolution and Functions.
- ii. Central Bank: Meaning and Functions.
- iii. Commercial Banks: Meaning and Functions.
- iv. Recent significant reforms and issues in Indian Banking System;
 Privatisation and Modernization.

Unit-8 GOVERNMENT BUDGET AND THE ECONOMY

- Government Budget. Meaning and its Components, Objectives of Government Budget.
- ii. Budget Receipts Revenue Receipts and Capital Receipts.
- iii. Budget Expenditure-Revenue and Ca pital Expenditure, Plan and Non-Plan Expenditure and Development and Non-Development Expenditure.
- iv. Balance Budget, Surplus Budget and Deficit Budget: Their Meaning and Implications; Types of Deficit Budget-Revenue Deficit, Fiscal Deficit and Primary Deficit(meaning and implications); Measures to contain different Deficits. Downsizing the role of Government: Meaning and Implications.

Unit-9 BALANCE OF TRADE AND BALANCE OF PAYMENTS.

Foreign Exchange Rate: Meaning, Fixed and Flexible Exchange Rate
 System-Meaning, Merits and Demerits.

- ii. Determination of Flexible Exchange Rate System through Demand and Supply.
- iii. Balance of Payment Accounts; Meaning and Components.
- iv. A brief analysis about recent Exchange Rate Issue.

CLASS-XII 16. MATHEMATICS

Time: 3 Hrs

CCE: 10 Marks
Total: 100 Marks

- 1. All Questions are Compulsory.
- 2. Q 1 will consist of 10 parts and each part will carry one (1) Mark.
- 3. Q 2 to Q 9 each will be of 2 Marks.
- 4. Q 10 to Q 19 each will be of 4 marks.
- 5. Q 20 to 23 each will of 6 marks.
- 6. There will be no overall choice. There will be an internal choice in any 3 questions of 4 marks each and all questions of 6 marks.(Total of 7 internal choices)
- 7. Use of Calculator is not allowed.

Sr. No	Topic	Q. Carrying 1-Marks	Q. Carrying 2-Marks	Q.Carrying 4-Marks	Q.Carrying 6-Marks	Total Marks
1.	Relations & Functions	1	-	1	-	05
2.	Inverse Trigonometric Functions	1	-	1	-	05
3. 4.	Matrices Determinants	1	1	1	1	13
5.	Continuity & Differentiability	2	1	1	-	08
6.	Applications of Derivatives	-	-	1	1	10
7.	Integrals	1	2	1	-	09
8.	Applications of the Integrals	-	-	1	-	04
9.	Differential Equations	1	2	1	-	09
10.	Vectors	1	-	1	-	05
11.	Three-dimensional Geometry	1	1	-	1	09
12.	Linear Programming	-	-	-	1	06
13.	Probability	1	1	1	-	07
	Total Questions	1 (10Parts)	8	10	4	23
	Total Marks	10	16	40	24	90

SYLLABUS

1 Relations and Functions:

Types of relations: Reflexive, symmetric, transitive and equivalence relations. One to one and onto functions, composite functions, inverse of a function. Binary operations.

2 Inverse Trigonometric Functions:

Definition, Range, Domain, Principal value branches. Graphs of inverse trigonometric functions. Elementary properties of inverse trigonometric functions.

3 Matrices:

Concept, notation, order, equality, types of matrices, zero matrix, transpose of a matrix, symmetric and skew symmetric matrices. Addition, multiplication and scalar multiplication of matrices, simple properties of addition, multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Concept of elementary row and column operations. Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).

4 Determinants:

Determinant of a square matrix (up to 3×3matrices), properties of determinants, minors, cofactors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equation by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.

5 Continuity and Differentiability:

Continuity and Differentiability, derivative of composite functions, chain rule, derivative of inverse trigonometric functions, derivative of implicit function. Concepts of exponential and logarithmic functions. Derivatives of \log_{e^x} and e^x . Logarithmic differentiation. Derivative of functions expressed in parametric forms. Second order derivatives. Rolle's and Lagrange's Mean Value Theorems (without proof) and their geometric interpretations.

6 Applications of Derivatives

Applications of derivatives: rate of change, increasing/decreasing functions, tangents and normal, approximation, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real life situations).

7 Integrals:

Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, only simple integrals of the type:

$$\int \frac{dx}{x^2 \pm a^2}, \int \frac{dx}{\sqrt{x^2 \pm a^2}}, \int \frac{dx}{\sqrt{a^2 - x^2}}, \int \frac{dx}{\sqrt{ax^2 + bx + c}}, \int \frac{dx}{ax^2 + bx + c}$$

$$\int \frac{(px + q)}{ax^2 + bx + c} dx, \int \frac{(px + q)}{\sqrt{ax^2 + bx + c}} dx, \int \sqrt{a^2 \pm x^2} dx \text{ and } \int \sqrt{x^2 - a^2} dx$$

$$\int \sqrt{ax^2 + bx + c} dx \text{ and } \int (px + q)\sqrt{ax^2 + bx + c} dx$$
to be evaluated.

Definite integrals as a limit of a sum. Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals. .

8 Applications of the Integrals:

Applications in finding the area under simple curves, especially lines, areas of circles/parabolas/ellipses (in standard form only), area between the two above said curves (the region should be clearly identifiable).

9 Differential Equations:

Definition, order and degree, general and particular solutions of a differential equation. Formation of differential equation whose general solution is given. Solution of differential equations by method of separation of variables, homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type:

$$\frac{dy}{dx} + Py = Q$$
where P and Q are functions of x or constant.
$$\frac{dx}{dy} + Px = Q$$

where P and Q are functions of y or constant

10 Vectors:

Vectors and scalars, magnitude and direction of a vector. Direction cosines/ratios of vectors. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Scalar (dot) product of vectors, projection of a vector on a line. Vector (cross) product of vectors, scalar triple product.

11 Three-dimensional Geometry:

Direction cosines/ ratios of a line joining two points. Cartesian and vector equation of a line, coplanar and skew lines, shortest distance between two lines. Cartesian and vector equation of a plane. Angle between (i) two lines, (ii) two planes, (iii) a line and a plane. Distance of a point from a plane.

12 Linear Programming:

Introduction, definition of related terminology such as constraints, objectives function, optimization, different types of linear programming (L.P.) problems, mathematical formulation of L.P problems, graphical method of solution for problems in two variables, feasible and infeasible regions, feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constrains)

13 Probability:

Multiplication theorem on probability. Conditional probability, independent events, total probability, Baye's theorem, Random variable and its probability distribution, mean and variance of haphazard variable. Repeated independent (Bernoulli) trials and Binomial distribution.

Note:- The subtopics which are printed in the books published by Punjab School Education Board but are not mentioned in syllabus, should be considered as part of syllabus.

CLASS-XII 17. BUSINESS ORGANISATION & MANAGEMENT (HUMANITIES GROUP)

Time: 3 Hrs Theory: 90 Marks

CCE: 10 Marks Total: 100 Marks

STRUCTURE OF QUESTION PAPER

1. The question paper will cover whole of the syllabus.

- 2. 26 Questions will be set in the question paper. Students will attempt 24 questions.
- 3. All units of the syllabus should be given adequate representation in the question paper.

Section-A

4. Question No. 1 consists of 10 sub parts carrying 1 mark each. Answer of each Part should be given in 1-15 words. Objective type questions may include questions with one word to one sentence answer/fill in the blank/true or false/multiple choice type questions.

Section-B

5. Question No. 2 to 11 will carry 2 marks each. Answer of each question should be given in 5-10 lines.

Section-C

6. Do any 9 question out of 11 questions. Question No. 12 to 22 will carry 4 marks each. Answer of each question should be given in 15-20 lines.

Section-D

7. Question No. 23 to 26 will carry 6 marks each with internal choice. Answer of each question should be given in 3-5 pages. Internal choice question should not be set from the same unit.

Detail of questions set from each unit

	Detail of	questions	et irom eac	ii uiiit	
		Section-A	Section-B	Section-C	Section-D
Unit	Name of the unit	1 mark	2marks	4marks	6marks
No.		questions	questions	questions	question
1.	Nature & Significance of	1	1	1	(i) 1Q. from unit
	Management				1&2 with a from
2.	Principles of Management	1			unit3&4 as internal
3.	Business Environment	1	1	1	choice
4.	Planning			1	
5.	Organisation	1	1	1	(ii) 1Q from unit
6.	Staffing		1		5&6 with 1Q from
7.	Directing	1	1	1	unit 8&9 as
					internal choice.
8.	Coordination	1	1	1	(iii) 1Q from unit
9.	Controlling				10&11 with 1Q
					from unit 13&14
					as internal choice.
10.	Business Finance	1	1	1	(iv) 1Q from unit 7
11.	Financial Markets		1		with 1Q from unit
12.	Marketing	1	1	2	12 as internal
13.	Consumer Protection	1	1	1	choice.
14.	Entrepreneurship	1		1	
	Development				
	Total	10	10	11	4

SYLLABUS

PRINCIPLES AND FUNCTIONS OF MANAGEMENT

UNIT-1: NATURE AND SIGNIFICANCE OF MANAGEMENT.

- (a) Management Concept, Objectives and Importance.
- (b) Management as an Activity, Process, Discipline and as a Group.
- (c) Nature of Management as a Science, as an Art and as a Profession.
- (d) Management and Administration Comparison.
- (e) Level of Management-Top, Middle & Supervisory.
- (f) Management Function-Planning, Organising, Staffing, Directing Coordinating and Controlling.

UNIT-2: PRINCIPLES OF MANAGEMENT

- (a) Principles of Management: Meaning, Nature & Significance.
- (b) Fayol's Principles of Management.
- (c) Taylor's Scientific Management-Principles & Techniques.

UNIT-3: BUSINESS ENVIRONMENT

- (a) Business Environment Meaning & Importance.
- (b) Dimensions of Business Environment-Political, Economic, Social Legal and Technological.
- (c) Economic Environment in India, Impact of Govt. Policy changes on business & industry with Refrence to Liberalization, Privatization and Globalization (since 1991).

UNIT-4: PLANNING

- (a) Meaning, Features, Process, Importance & Limitations.
- (b) Goals, Objectives, Policy, Procedures, Strategy, Methods, Rules, Budgets and Programmes-Meaning and Distinction.

UNIT-5: ORGANISATION

- (a) Meaning and Importance
- (b) Process of Organizing
- (c) Types of Organization: Formal, Informal, Line Organization, Line & staff and Functional Organization.
- (d) Delegation: Meaning, Elements and Importance, Barriers in the way of delegation, Step to make delegation effective.
- (e) Decentralization: Meaning and Importance
- (f) Difference between Centralization and Decentralization.
- (g) Difference between Delegation and Decentralization.

UNIT-6: STAFFING

- (a) Staffing: Meaning, Need and Importance
- (b) Steps in Staffing Process:
 - (i) Recruitment: Meaning and Sources.
 - (ii) Selection: Meaning and Process.
 - (iii) Training & Development: Meaning, Need, Types and Methods.
- (c) Methods of Wage Payment: Time Rate & Price Rate.
- (d) Types of Compensation and Incentives: Monetary & Non Monetary.

UNIT-7: DIRECTING

- (a) Directing: Meaning and Importance.
- (b) Elements of Direction:

- (i) Supervision: Meaning and Importance
- (ii) Motivation: Meaning and Importance, Maslow's hierarchy of needs: Financial & Non-Financial Incentives.
- (iii) Leadership: Meaning, Importance, Quality of a good leader.
- (iv) Communication: Meaning and Importance, Types of Communication and Barriers to Effective Communication.

UNIT-8: COORDINATION

Coordination: Meaning, Nature & Importance.

UNIT-9: CONTROLLING

- (a) Controlling: Meaning and Importance.
- (b) Relationship between Planning and Controlling.
- (c) Steps in the process of Control.

BUSINESS FINANCE AND MARKETING

UNIT-10: BUSINESS FINANCE

- (a) Meaning and Objectives of Finance Functions, Profit Maximization vs Wealth Maximization.
- (b) Financial Planning: Meaning & Importance
- (c) Capital Structure: Meaning & Factors
- (d) Working Capital: Meaning, Importance, Types & Factors affecting its requirements.

UNIT-11: FINANCIAL MARKETS

- (a) Concept of Financial Market: Money Market-Nature, Instruments.
- (b) Capital Market: Nature, and Types-Primary and Secondary Market.
- (c) Distinction between Capital Market and Money Markets.
- (d) Stock Exchange; Meaning, Functions, NSEI, OCTEI, Training Procedure.
- (e) Securities and Exchange Board of India (SEBI): Objectives and Functions.

UNIT-12: MARKETING

- (a) Marketing: Meaning, Function & Role.
- (b) Distinction between Marketing & Selling.
- (c) Marketing Mix: Concept & Elements-
 - (i) Product: Nature, Classification, Branding, Labeling and Packaging.
 - (ii) Physical Distribution: Meaning, Role, Channels of Distribution:-
 - Meaning, Types, Factors determining choice of channel.
 - (iii) Promotion: Meaning and Role, Promotion Mix, Role of Advertising and Personal Selling, Objectives of Advertising.
 - (iv) Price: Factors influencing Pricing.

UNIT-13: CONSUMER PROTECTION

- (a) Importance of Consumer Protection,
- (b) Consumer Rights.
- (c) Consumer Responsibilities.

- (d) Ways and Means of Consumer Protection: Consumer Awareness and legal redressal with special reference to Consumer Protection Act 1986.
- (e) Role of Consumer Organization and NGO's.

UNIT-14 ENTREPRENEURSHIP DEVELOPMENT

- (a) Entrepreneurship: Concept, Characteristics, Needs and Functions.
- (b) Process of Entrepreneurship Development.
- (c) Entrepreneurial Values, Attitudes and Motivation: Meaning & Concept.

CLASS-XII 18. BOOK KEEPING AND ACCOUNTANCY (HUMANITIES GROUP)

Time: 3 Hrs Theory: 90 Marks

CCE: 10 Marks Total: 100 Marks

STRUCTURE OF QUESTION PAPER (THEORY)

- 1. The question paper will cover whole of the syllabus.
- 2. There are 4 sections in the question paper i.e. Section A, Section B, Section C and Section D.
- 3. 26 Question will be set in the question paper. Out of which students will have to attempt 24 questions.
- 4. All units of the syllabus should be given adequate representation in the question paper.
- 5. There is no word, line or page limit for numerical questions.
- 6. The use of non-programmable simple calculator is allowed.

SECTION-A

7. Question No. 1 consists of 10 sub parts carrying 1 mark each. Answer of each part should be given in 1-15 words. Objective type questions may include questions with one word or one sentence answer/fill in the blanks/true or false/multiple choice type questions.

SECTION-B

8. Question No. 2 to 11 (of which 5 questions will be numerical and 5 question will be theoretical) will carry 2 marks each. Answer of theoretical questions should be given in 5 to 10 lines.

SECTION-C

9. Question No. 12 to 22 will carry 4 marks each. Question No.12 to 22 (of which 6 questions will be numerical and 5 questions will be theoretical) and students will attempt any 9 questions out of these 11 questions.

SECTION-D

10. Question No. 23 to 26 will carry 6 marks each with internal choice. Of these, any two questions will have internal choice between therotical and numerical questions and other two will have only numerical question as internal choice. Answer of theoritical questions should be given in 3-4 pages of the answer book.

SYLLABUS

UNIT 1: ACCOUNTING FOR NOT-FOR-PROFIT ORGANIZATION.

- 1. Meaning, Basic Concepts
- 2. Receipts and Payments: Meaning and Concept of Fund Based and Non Fund Based Accounting
- 3. Prepration of Income and Expenditure Account and Balance Sheet from Receipt and Payment Account with additional information.

UNIT 2: ACCOUNTING FOR PARTNERSHIP

- 1. Nature of Partnership Firm, Partnership Deed (Meaning and Importance)
- Final Accounts of Partnership: Fixed v/s Fluctuating Capital, Division of Profit among Partners (excluding guarantee and past adjustments).
 Preparation of Profit and Loss Appropriation Account

UNIT 3: RECONSTITUTION OF PARTNERSHIP

- Change in Profit Sharing Ratio among the existing Partners- Sacrificing Ratio and Gaining Ratio
- 2. Accounting for Revaluation of Assets and Liabilities and Distribution of Reserves and Accumulated Profits
- Goodwill: Meaning, Nature, Factors affecting and Methods of Valuation.
 Average Profits, Super Profits and Capitalization Methods
- 4. Admission of a Partner:- Effect of Admission of Partner, Change in Profit Sharing Ratio, Accounting Treatment of Goodwill (as per accounting standard 10). Revaluation of Assets and Liabilities, Reserves (Accumulated profits) and Adjustment of Capitals
- 5. Retirement/Death of a Partner: Change in Profit Sharing Ratio,
 Accounting Treatment of Goodwill, Revaluation of Assets and Liabilities,
 Treatment of Accumulated Profits (Reserve), Adjustment of continuing
 P.capitals, Payment to Retiring Partner/ Deceased Partners.

UNIT 4: DISSOLUTION OF PARTNERSHIP FIRM

Meaning and Various Modes of Dissolution of Partnership Firm, Settlement of Accounts. Preparation of Realization Account and Related Accounts (excluding Piece Meal Distribution, Sale to a Company and Insolvency of a Partner).

UNIT-5: ACCOUNTING FOR SHARE CAPITAL AND DEBENTURES

- 1. Share Capital: Meaning, Nature and Types
- 2. Accounting for Share Capital: Issue and Allotment of Equity and Prefer Shares, Over Subscription and under Subscription, Issue at Par Securities Premium and at Discount, Calls in Advance, Calls in Arrears, Issue of Shares for Consideration other than cash.
- 3. Forfeiture of Shares: Accounting Treatment, Reissue of Forfeited Shares.
- 4. Presentation of Share and Debenture, Capital in Company's Balance Sheet
- 5. Issue of Debentures:- Meaning, Types of Debentures, Issue at Par, Premium and Discount, Issue of Debentures for Consideration other than cash, Debenture Issues as Collateral Security.
- 6. Redemption of Debentures: Out of proceeds of fresh issue, Accumulated Profits and Sinking Fund.

UNIT 6: ANALYSIS OF FINANCIAL STATEMENTS

- 1. Financial Statement of Company: Balance Sheet of a Company in the prescribed form with major heading only (schedule VI)
- 2. Financial Analysis: Meaning, Significance and Purpose, Limitations.

- 3. Tools for Financial Analysis: Comparative statements, Common Size Statement and Trend Analysis.
- 4. Accounting Ratio: Meaning, Objectives and Types of Ratios:
 - a. Liquidity Ratio: Current Ratio, Liquidity Ratio.
 - Solvency Ratio: Debt to Equity, Total Assets to Debt, Proprietary Ratio.
 - c. Activity Ratio: Inventory Turnover, Debtors Turnover, Creditors
 Turnover, Working Capital Turnover, Fixed Assets Turnover,
 Currents Assets Turnover.
 - d. Profitability Ratio: Gross Profit, Operating Profit Ratio, Net Profit Ratio, Return on Investment, Earning Per Share Dividend Per Share, Price Earning Ratio.

UNIT 7: STATEMENT OF CHANGES IN FINANCIAL POSITION

Cash Flow Statement: - Meaning and Objectives, Preparation, Adjustments related to Depreciation, Dividend, Tax, Purchase and Sale of non current assets (as per revised standard issued by ICAI)

CLASS-XII 19. POLITICAL SCIENCE

Time: 3 Hrs

Theory: 90 Marks

CCE: 10 Marks

Total: 100 Marks

STRUCTURE OF QUESTION PAPER

1. All questions are compulsory.

- 2. The question paper will comprise of 4 sections A, B, C and D of four questions with 34 sub parts to be attempted.
- 3. All units of the syllabus should be given adequate representation in the question paper.

SECTION- A

Objective Type Questions: Question No. 1 will have ten Parts (I to X) and each Part will carry 1 mark. This section will include questions with one word answer/ fill in the blank/ true or false/multiple choice type questions.

10×1= 10

SECTION-B

Very Short Answer Type Questions: Question No. 2 comprises of 12 sub parts (questions I to XII) carrying 2 marks each. Answer to each question should be in about 20-30 words. All Questions are compulsory. **12×2= 24**

SECTION- C

Short Answer Type Questions: Question No. 3 comprises of 10 sub parts (I to X) out of which students have to attempt any 8 question carrying 4 marks each. Answer to each question should be in about 50-60 words.

8×4= 32

SECTION- D

Long Answer Type Questions: Question No. 4 comprises of 4 sub parts (questions I to IV) carrying 6 marks each. Answer to each question should be in about 150-200 words. Three will be 100% internal choice in these questions. $4\times6=24$

Typology of Questions	Number of	Marks	Division of	f Syllabus	Total
	Questions	Division	Part A	Part B	Marks
Section-A Objective Type	Q.1	01 mark	5	5	10
Questions	(Q.I to X)				Marks
Section-B Very Short	Q.2	02 marks	6	6	24
Answer Type questions	(Q.I to XII)				Marks
Section-C	Q.3	04 marks	5	5	32
Short Answer Type	(Q.I to X)				marks
Questions	Attempt				
	any eight				
Section-D	Q.4	06 marks	2	2	24
Long Answer Type	(Q.I to IV)		100%	100%	Marks
Questions	100%		internal	internal	
	internal		choice	choice	
	choice				
Total	34/36		18	18	90

Note:- Keeping in view the syllabus, the **27 chapters** have been divided into **9 parts**. While preparing the question paper it should be kept in mind that minimum 7 marks maximum 10 marks paper should be set from each part.

SYLLABUS PART-A POLITICAL THEORY Part-I

Unit I: Political System

- (i) Meaning, Characteristics and functions.
- (ii) Difference between state and political system.
- (iii) Comparative Politics: Meaning and Nature.
- (iv) Modern concepts:
 - a) Political Culture: Meaning and Characteristics.
 - b) Political Socialisation: Meaning and Agents.

Part-II

Unit II: Some major contemporary Political Theories

- (i) Liberalism
- (ii) Marxism
- (iii) Political ideas of Mahatama Gandhi

Part-III

Unit III: Bureaucracy (Civil Services)

- i) Meaning and importance
- (ii) Recruitment
- (iii) Role and functions
- (iv) Distinction between Political Executive and Permanent Executive and their respective roles

Unit IV: Electorate

- (i) Adult Suffrage
- (ii) Systems of Representation
- (iii) Direct and Indirect Elections

Part-IV

Unit V: Public opinion

- (i) Role and importance of Public Opinion in a Democratic Polity.
- (ii) Agencies for the formulation and expression of Public Opinion

Unit VI: Party System

- (i) Political parties their functions and importance
- (ii) Basis of formation of Political Parties
- (iii) Types of Party System
- (iv) The Role of Opposition

Unit VII: Interest and Pressure Groups

- (i) Interest Groups and Pressure Groups their nature types and functions
- (ii) Ways of functioning of pressure groups

INDIAN POLITICAL SYSTEM Part-V

Unit VIII: Indian Democracy

- (i) Parliamentary Model.
- (ii) Socio-Economic Factors Conditioning Indian Democracy

- (iii) Problems and challenges to Indian Democracy
 - a) Inequality, Social and Economic/poverty
 - b) Illiteracy
 - c) Regionalism
 - d) Communalism, Casteism, Separatism and Political Violence

Part-VI

Unit IX: Democracy at Grass root

- (i) Concept of Panchayati Raj
- (ii) Structure and Working of Panchayati Raj
- (iii) Panchayati Raj Some problems
- (iv) Local Bodies in Urban Areas

Part-VII

Unit X: Party System in India

- (i) Nature of Party System in India
- (ii) Study of major national political parties their programmes and policies
- (iii) Problems facing the Indian Party System

Unit XI: Electoral System

- (i) Adult Franchise and people's participation
- (ii) Voting behaviour meaning and determinants
- (iii) Election Commission and Election Procedure

Unit XII: National Integration

- (i) Problems of National Integration
- (ii) Steps taken to promote National Integration

Part-VIII

Unit XIII: Foreign Policy of India

- (i) Determinants of Foreign Policy
- (ii) Basic principles of Foreign Policy
- (iii) India and the United Nations, India and SAARC

Part-IX

Unit XIV: India and the World

- (i) India's relations with her Neighbours : Nepal, Sri Lanka, China, Bangla Desh and Pakistan
- (ii) India's relation with U.S.A. and Russia
- (iii) India's approach to major world issues: Human Rights, Disarmament and Globalization.

CLASS-XII 20. SOCIOLOGY

Time: 3 Hrs Theory: 90 Marks

CCE: 10 Marks Total: 100 Marks

STRUCTURE OF QUESTION PAPER

1. All questions are compulsory.

- 2. The question paper will comprise of 4 sections A, B, C and D of four questions with 32 sub parts to be attempted.
- 3. All units of the syllabus should be given adequate representation in the question paper.

SECTION- A

Objective Type Questions: Question No. 1 will have ten Parts (I to X) and each Part will carry 1 mark. This section will include questions with one word answer/ fill in the blank/ true or false/multiple choice type questions.

1×10= 10

SECTION- B

Very Short Answer Type Questions: Question No. 2 comprises of 10 sub parts (questions I to X) carrying 2 marks each. Answer to each question should be in about 20-30 words. All Questions are compulsory. **2×10= 20**

SECTION- C

Short Answer Type Questions: Question No. 3 comprises of 6 sub parts (I to VI) out of which students have to attempt any 6 question carrying 4 marks each. Answer to each question should be in about 50-60 words. **4×6= 24**

SECTION- D

Long Answer Type Questions: Question No. 4 comprises of 6 sub parts (questions I to VI) carrying 6 marks each. Answer to each question should be in about 100-150 words. Three will be 100% internal choice in these questions.

6×6= 36

Typology of	Number	Marks	Division of	Syllabus	Total
Questions	of	Division	Part A	Part B	Marks
	questions		Unit 1and 2	Unit3 and 4	
A. Objective Type	10	01 Mark	5	5	10
Questions					Marks
B. Very Short	10	02 Marks	5	5	20
Answer Type					Marks
Questions					
C. Short Answer	06	04 Marks	3	3	24
Type Questions					marks
D. Long Answer	06	06 Marls	3	3	36
Type Questions					Marks
Total	32		16	16	90

SYLLABUS

PART-A

Unit: I Tribal, Rural and Urban Societies in India

- 1. **Tribal Society**: Meaning ,Features; Classification of Tribes; Marriage System; Issues- Deforestation and Displacement; Changes in Tribal Society.
- **2. Rural Society :** Meaning, Features; Issues- Indebtedness, Impact of Green Revolution; Changes in Rural Society.
- **3. Urban Society:** Meaning Features; Issues Housing and Slums

Unit: II Inequalities in Indian Society

- **4. Caste Inequalities:** Concept, Features; Caste and Social Stratification, Theories of Origin of Caste, Caste Inequality and Indian Society
- **5. Class Inequalities:** Concept of class, Features of Class; Relations between caste, class, status Group and class Hierarchy, Views of Sociologists on class structure, Classes in Rural and Urban India.
- **6. Gender Inequalities:** Concept, Gender Inequality, Theories of Feminism, Gender; Gender Discrimination: Meaning and Nature; Problems of Women, Role of Gender relation in Societal Development

Unit: III Structural and Cultural Change in India

- **7. Westernisation and Sankritisation:** Westernisation: Meaning, Carrier of process, Features, Impact: Sanskritisation: Meaning, Sanskritisation preferred as against Brahminisation, Dominant Caste, Impact
- **8. Modernisation and Globalisation:** Modernisation: Meaning, Characteristic, Process of Modernisation, Causes, Impact: Globalisation: Meaning, Characteristics, Process of Globalization, Causes, impact
- **9. Social Movement:** Meaning Types, Stages Caste Based Movements, Class Based Movements, Women's movements, Environmental movements

Unit: IV Social Problems in Indian Society

- 10. Social Problems: Alcoholism and Drug Addiction
- 11. Violence Against Women: Female Foeticide and Domestic Violence: Female Foeticide: Meaning, India Scenario, Causes, Consequences, Strategies to Combat Female Foeticide; Domestic Violence- Meaning, Forms, Factors, Causes, Effects, Remedies
- **12. Social Issues:** The Aged and Disability: The Aged: Theries, Problems, Remedial Measures: Disability- Definition, Magnitude of Disability, Types, Causes, Social Model, Problems, Measures

CLASS-XII 21. PUBLIC ADMINISTRATION (HUMANITIES GROUP)

Time: 3 Hrs

Theory: 90 Marks

CCE: 10 Marks

Total: 100 Marks

STRUCTURE OF QUESTION PAPER

All questions are compulsory.

The question paper will comprises 4 sections A, B, C and D of 27 questions in total. Student will attempt 25 questions. The question paper will have:

SECTION-A

Objective Type Questions: This section will include questions with one word answer/ fill in the blank/ true or false/ multiple choice type questions. Question No. 1 will have ten Parts (A to J) and each Part will carry 1 mark.

 $10 \times 1 = 10$

SECTION-B

Very Short Answer Type Questions: This section will have 12 questions (from Q no.2 to 13) Each question will carry 2 marks. All Questions are compulsory. Answer of each question should be in 20-30 words. **12×2= 24**

SECTION-C

Short Answer Type Questions: This section will have 10 questions from 14 to 23. Each question will carry 4 marks Student have to attempt any eight out of ten questions Each question should be in 50-60 words.

8×4=32

SECTION-D

Long answer Type Questions: This section will have 4 questions (24 to 27) with internal choice. Each question will carry 6 marks. Answer of each question should be in 150-200 words. There will be 100% internal choice in these questions. **6×4= 24**

Note:- Weightage to each unit must be given in each type of questions as appropriate.

Typology of Questions	Number of questions	Marks Division	Total marks	Division of Part A	f Syllabus Part B
A. Objective Type	1	10	10 Marks	5	5
Questions A to J	(In Parts	1 mark			
	A to J)	each part			
B. Very Short Answer	12	02 marks	24 Marks	6	6
questions		each			
C. Short Answer	10	04 marks	32 marks	5	5
Questions	To be				
(To be attempted = 8)	attempted				
	8				
D. Long Answer	4	06 marks	24 Marks	2	2
Questions (with				(Internal	(Internal
internal choice)				choice)	choice)
Total	_	_	90	_	-

SYLLABUS

UNIT -1 Personnel Administration

- a) Recruitment and Training: UPSC: Its Organization and Role.
- b) Promotion and Position Classification.
- c) Conduct and Discipline.
- d) Morale.
- e) Joint Consultative Machinery: Employer-Employee Relations

UNIT -II Financial Administration

- a) Budget-Meaning, Principles and Importance. The budget as an instrument of Public Policy. The budgetary process.
- b) Ministry of Finance -Its Organization and Working Legislative Control Finance.
- c) Public Accounts Committee at the central level.
- d) Estimates Committee at the central level.
- e) Performance Budgeting.

UNIT -III Audit and Its Role

- a) Comptroller and Auditor General of India.
- b) Accounting: Its Importance and Organization.

UNIT -IV Selected Approaches

- a) Scientific Management.
- b) Human Relations Approach.

UNIT - V Functional Aspects of Administration

- a) Communication.
- b) Supervision.
- c) Coordination.
- d) Centralization.
- e) Decentralization.
- f) Field Headquarter Relationship.

UNIT -VI

- a) Leadership.
- b) Policy Formation.
- c) Planning and Decision Making.

UNIT -VII Administration Improvement

- a) O & M (Organization and Methods).
- b) Administrative Reforms.

UNIT -VIII Administrative Law

- a) Administrative Law.
- b) Rule of Law.
- c) Delegated Legislation
- d) Administrative Tribunals -Role, Structure and Working.

CLASS-XII 22. RELIGION

Time: 3 Hrs Theory: 90 Marks CCE: 10 Marks

Total: 100 Marks

STRUCTURE OF QUESTION PAPER

- 1. The question paper will comprise of 32 questions in total.
- 2. All questions will be compulsory to attempt.
- 3. The question paper will consist of four parts with each part representing all sections and all religions.
- will consist of ten (10) objective type questions (Q. no. 1 to 10) Part-I carrying one mark each. Objective type questions may include questions with one word to one sentence answer or fill in the blank or true/false or multiple choice type questions.

10×1=10

- Part-II will consists of eight (8) short answer type -I questions (Q. no. 11 to 18) carrying 2 marks each. Answer of each question should be given within 30-35 words. 8×2=16
- Part-III will consist of ten (10) short answer type-II questions (Q. no. 19 to 28) carrying 4 marks each. Answer of each question should be given within 60-70 words. Out of ten, three Questions will have internal choice. 10×4=40
- Part-IV will consist of four (4) long answer type questions with internal (Q. no. 29 to 32) carrying 6 marks each. Answer of each question should be given in approximately 1½ to 2 pages of the answer sheet. 4×6=24

SECTIONWISE DISTRIBUTION OF OUESTIONS AND MARKS

Type of question	Marks per	No. of questions	Section	Section wise Distribution of questions		
	question		Section	Section Section Section		
			A	В	С	
Objective type	1 Mark	10	3	3	4	10
Short answer type-I	2 Marks	08	3	3	2	16
Short answer type-II	4 Marks	10	4	3	3	40
Long answer type	6 Marks	04	1	1	2	24
Total		32	11 10 11		90	

SYLLABUS SECTION A: (HISTORICAL)

- Religious life of the Indus valley people and early Aryans. (1)
- Budhist movement (up to Ashoka Period). (2)
- Rise And development of Sikhism (A.D. 1469 1708). (3)

SECTION B: (LITERARY)

- Introduction to Vedic Literature (name and main features of the four (1)Vedas).
- (2)General Introduction to Puranas, Upanishads, Shastras.
- (3)The Adi-Granth – its editing scheme.

SECTION C: (REFLECTIVE)

- (1) Ashta marga of Buddhism.
- (2) Ethical teachings of Jainism.
- (3) The Sikh way of life.

BOOK PRESCRIBED

An Introduction to Indian Religion by Harbans Singh & L.M. Joshi (Punjabi University, Patiala).

BOOK SUGGESTED (for general reading)

Punjabi University, Patiala Budhism

Jainism

Sikhism

Surinder Singh Johar - A hand book of Sikhism.

CLASS-XII 23. MUSIC (VOCAL)

Time: 3Hrs Theory: 60 Marks
Time: 20 mints (per student) Practical: 30 Marks

CCE: 10 Marks Total: 100 Marks

SYLLABUS (THEORY) STRUCTURE OF QUESTION PAPER (THEORY)

- 1. The question paper will comprise of 22 questions in total.
- 2. All questions will be compulsory to attempt.
- 3. The question paper will consist of three parts with each part representing both sections.

Part-I will consist of 7 objective type questions (Q. no. 1 to 7) carrying one mark each. Objective type questions may include questions with one word to one sentence answer.
7×1=7 Marks

Part-II will consist of 11 short answer type questions (Q. no. 8 to 18) carrying three (3) marks each. Answer of each question should be given with in 60-80 words.
11×3=33 Marks

Part-III will consist of 4 long answer type questions (Q. no. 19 to 22) with internal choice (from section A and B) carrying 5 marks each. Answer of each question should be given with in 150-200 word. **4×5=20 Marks**

SECTIONWISE DISTRIBUTION OF QUESTIONS AND MARKS

Type of Questions	Marks of per Question	No. of Questions	Section-wise Distribution of Questions		Total Marks
			Section-A	Section-B	
Objective Type	1 mark	07	3	4	7
Short Answer Type	3marks	11	6	5	33
Essay Type	5marks	04	2	2	20
Total Questions		22	11	11	60

SECTION-A

- 1. Brief history of modern period of Hindustani music.
- 2. Detailed knowledge of Tabla and Harmonium.
- 3. Time theory of Ragas.
- Define and explain the, following terms:
 Varna, Kan, Khatka, Murki, Gamak, Gayak, Gayaki, shudh Rag, Chhayalg
 Rag, Sankiran Rag, Lakshan geet.
- 5. Gayak ke gun aur dosh.
- 6. Definition of that. Its Characterstics, Ten that of Bhat Khande. Comparision between Raag and Thal Rules.
- 7. Essay:-(1) Importance of Tal in Music
 - (2) Place of Fine Arts in Music.
- 8. Cantribution towards music by the following scholars:-
 - (1) Bade Gulam Ali Khan.
 - (2) Bhim Sain Joshi.
 - (3) Prof: Baldev sharan Narang
 - (4) Faiyaz Khan

9. Shastri gayan shailies:-

Dharupad, Dhamar, Tarana, Dhumri, Khayal, Tappa.

- 10. Cantribultion of famous folk singers of Punjab in Folks music.
 - i. Assa Singh Mastana
 - ii. Surinder Kaur
 - iii. Narinder Biba
 - iv. Kuldeep Manak
 - v. Lal Chand Yamala Jat
 - vi. Didar Sandhu
 - vii. Parkash Kaur

SECTION-B

- 1. 10 Alankaras
- 2. To write the notations of Drut Khyals in prescribed.

Raags: Bhairav Bhimplasi, Malkauns, Khamaj.

- 3. Notation of Rupak tal, EK taal, jhaptal, Sul Taal, Tilwara tal, Dhamar tal.
- 4. Recognition of Raags from given Swar Sangaties.
- 5. Description of prescribed Raags.

STRUCTURE OF QUESTION PAPER (PRACTICAL)

Time: 20 minuties Mark:30

There should not be more than 9 students in a batch of practical examination. Harmonium is allowed as accompaniment in music (Vocal). The examiner will set the question paper on the spot. While setting the question paper in practical, the examiner must consider the syllabus in theory and will follow the following instructions.

- 1. Demonstration/performance of any one Raag out of the prescribed syllabus. The students can exercise the choice of Raags. It will be for 4 minutes and shall carry 7½ marks.
- 2. Demonstration/performance of one Raag from prescribed syllabus. The choice will be of examiner. It will be for 4 minutes and will carry 7½ marks.
- 3. Demonstration/performance of prescribed Taals in Ikgun and Dugun Layakaries by hand. It will be for 4 minutes and will carry 5 marks.
- 4. Recognition of one Taal and one Raag out of the prescribed syllabus. It will be for 4 minutes and will carry 5 marks.
- 5. Demonstration/performance regarding Tarana/Tappa/ Lok geet/Patriotic song. It will also be for 4 minutes and will carry 5 marks.

SYLLABUS (PRACTICAL)

- 1. One Drut Khayal with Alaap- Taan the following Raags: Bhairav, Bhimplasi, Malkauns, Khamaj.
- 2. One slow Khyal with short Alaaps and Taans in any of the prescribed Raags.
- 3. One Tarana only Sathai and Antra in any of the prescribed Raags.
- 4. Ability to demonstrate Rupak tal, jhaptal, Sul tal, Tilwara tal, dhamar tal with reciting bols by hands in Ikgun and Dugun layakari.
- 5. One Camposition of Patriotic song.
- 6. Ability to recognise the prescribed Raag from the passages of swaras.
- 7. Knowledge of the structure of Harmonum and Tabla.
- 8. 10 Alankaras.

Note:- The book Published and Prescribed by the Punjab School Education Board:-

Sangeet Gayan-12

CLASS-XII 24. GURMAT SANGEET

Time: 3 Hrs
Time: 20 mints (per student)
Theory: 60 Marks
Practical: 30 Marks

CCE: 10 Marks Total: 100Marks

STRUCTURE OF QUESTION PAPER (THEORY)

1. The question paper will comprise of 22 questions in total.

2. All questions will be compulsory to attempt.

3. The question paper will consist of three parts with each part representing both sections.

Part-I will consist of 7 objective type questions (Q. no. 1 to 7) carrying one mark each. Objective type questions may include questions with one word to one sentence answer. 7×1=7 Marks

Part-II will consist of 11 short answer type questions (Q. no. 8 to 18) carrying three (3) marks each. Answer of each question should be given with in 60-80 words.

11×3=33 Marks

Part-III will consist of 4 long answer type questions (Q. no. 19 to 22) with internal choice (from section A and B) carrying 5 marks each. Answer of each question should be given with in 150-200word.

4×5=20 Marks

SECTIONWISE DISTRIBUTION OF QUESTIONS AND MARKS

Type of Questions	Marks of per Question	No. of Questions	Section-wise Distribution of Questions		Total Marks
			Section-A	Section-B	
Objective Type	1 mark	07	3	4	7
Short Answer Type	3marks	11	6	5	33
Essay Type	5marks	04	2	2	20
Total Questions		22	11	11	60

SYLLABUS (THEORY) SECTION-A

Unit-1

- 1. Brief history of Gurmat Music.
- 2. Contribution towards Gurmat Sangeet by Guru Arjun Dev Ji.
- 3. Introduction of Choukie:
 - a. Asa Di Var
 - b. Sodar
- 4. Brief introduction of famous Kirtaniyas of Guru period.
 - a. Bhai Mardana
 - b. Bhai Shahzad
 - c. Bhai Sata.
 - d. Bhai Balwand.
- 5. Raag Parkar and Mishrit (mixed) Raags of Guru Granth Sahib.
- 6. Life sketch and contribution of towards Gurbani Sangeet.
 - a. Bhai Chand
 - b. Prof. Tara Singh

- c. Bhai Hira Singh
- 7. Definition of following music terms used in Gurmat Sangeet Raag: Mahalla, Shabad Ank, Rahao, Dhuni (Dhun), Partal, Ghar.

SECTION-B

- 1. Description of the prescribed Raags: Todi and Dhanasari, Sarang, Baharaiv.
- 2. Description with Ikgun, Dugun and Chougun of Ek Taal, Jhap Taal, Rupak Taal and Teen Taal.
- 3. Recognition of prescribed Raags: Asavari, Dhanasari, Bhairav, Sarang Raags from given Swar- Sangaties.
- 4. Notation of Shabad- Gayan only Sathai Antra.

STRACTURE OF QUESTION PAPER (PRACTICAL)

There should not be more than 9 students in a batch of practical examination of Gurmat Sangeet. Harmonium will be allowed as a accompaniment. The examiner will set the question paper on the spot. While setting the question paper in practical examination, the examiner must consider the syllabus in theory and will follow the following instructions.

- 1. Demonstration/performance of Shabad Gayan in any one Raag out of the prescribed Raags in the syllabus. The choice of the Raags will be done by the student. It will be for 6 minutes and shall carry 10 marks.
- 2. Demonstration/performance of Shabad Gayan in any one Raag out of the prescribed Raags in the syllabus. The examiner will do the choice of the Raags. It will be for 4 minutes and shall carry 5 marks.
- 3. Demonstration/performance of Taals in Ikgun and Dugun layakaries by hand. It will be for 4 minutes and shall carry 5 marks.
- 4. Recognition of one Taal and one Raag out of the prescribed Taals and Raags in syllabus. It will be for 2 minutes and will carry 5 marks.
- 5. Demonstration/performance regarding Alankaara/Shand (Chhant) and Salok. It will be for 4 minutes and carry 5 marks.

SYLLABUS (PRACTICAL)

- 1. Shabad Gayan in Bhairav, Sarang, Asavari and Dhansari according to the traditional style of Gurbani Gayan.
- 2. Capability to demonstrate: Ek Taal, Jhap Taal, Rupak Taal and Teen Taal.
- 3. Five Alankaras: (Sargam and Akaar) in Bhairav and Todi Raags.
- 4. Recognition of prescribed Raags by given Swar-Sangities.
- 5. Gayan of one Gurbani Salok in vilambat laya according to Vandana style.

CLASS-XII 25. MUSIC (INSTRUMENTAL)

Time: 3 Hrs

Time: 20 mints (per student)

Theory: 60 Marks

Practical: 30 Marks

CCE: 10 Marks

CCE: 10 Marks Total: 100Marks

STRUCTURE OF QUESTION PAPER (THEORY)

1. The question paper will comprise of 22 questions in total.

- 2. All questions will be compulsory to attempt.
- 3. The question paper will consist of three parts with each part representing both sections.

Part-I will consist of 7 objective type questions (Q. no. 1 to 7) carrying one mark each. Objective type questions may include questions with one word to one sentence answer.

7×1=7 Marks

Part-II will consist of 11 short answer type questions (Q. no. 8 to 18) carrying three (3) marks each. Answer of each question should be given with in 60-80 words.

11×3=33 Marks

Part-III will consist of 4 long answer type questions (Q. no. 19 to 22) with internal choice (from section A and B) carrying 5 marks each. Answer of each question should be given with in 150-200word. 4×5=20 Marks

SECTIONWISE DISTRIBUTION OF QUESTIONS AND MARKS

Type of Questions	Marks of per Question	No. of Questions	Section-wise Distribution of Questions		Total Marks
			Section-A	Section-B	
Objective Type	1 mark	07	3	4	7
Short Answer Type	3marks	11	6	5	33
Essay Type	5marks	04	2	2	20
Total Questions		22	11	11	60

SYLLABUS (THEORY) PART-A

- 1. History of Modren Period of Hindustani Music.
- 2. Detailed knowledge of the following instruments:-Sitar, Tabla.
- 3. Time Theory of Ragas.
- 4. Definition of the following music terms:Varna, kan, meend, mizrab, jhalla, chikari, gamak, soot, krintan, zamjama, Shudh, chyalag, sankeeran raags.
- 5. Vadak ke Gun our Dosh.
- 6. Definition and Principles of Thaats. Ten Thaats of Pandit Bhatkhande. Comparision between raags and thats rules.
- 7. (a) Importance of taal in music

- (b) Music and other Fine-Arts
- 8. Contribution towards music by the following schotars:-
 - (a) Ustad Allaudin Khan
 - (b) Sh. Nikhil Banerjee
 - (c) Pandit Harwinder Kumar Sharma
 - (d) Ustad Vilayat Khan
- 9. Development of vadan styles in Indian Music.
- Instruments used in solo performance in Indian Music.
 Sitar, Sarood, Sarangi, Dilruba, Shanai, Flute, Jattarang, Harmonimum, Tabla, Dhol

PART-B

- 1. 10 Alankaars.
- 2. To write the notation of Razakhani Gats in Bhairav, Malkauns, Bhimplasi and Khamaj Raags.
- 3. One slow Gat in prescribed Raags.
- 4. One composition in Ek Taal or Jhap Taal in prescribed Raags.
- 5. One Dhun in any Raag.
- 6. Description of Rupak Tal, Ek Taal, Tilwada Taal, Dhamaar Taal, Sultal and Jhap Taal with Ekgun and Dugan layakaries.
- 7. Knowledge of the structure of your Instrument.

STRACTURE OF QUESTION PAPER (PRACTICAL)

Time: 20 Minuties 30 Marks

There should not be more than 9 students in a batch of practical examination. The examiner will set the question paper on the spot. While setting the question paper in practical examination, the examiner must consider the syllabus in theory and will follow the following instructions.

- 1. Demonstration/performance of any one Raag out of the prescribed syllabus. The student will do the choice of the Raags. It will be for 4 minutes and shall carry 7½ marks.
- 2. Demonstration/performance of one Raag out of the prescribed syllabus. The examiner will do the choice of the Raag. It will be for 4 minutes and shall carry 7½ marks.
- 3. Demonstration/performance of Taals in Ikgun and Dugun layakaries by hand. It will be for 4 minutes and shall carry 5 marks.
- 4. Recognition of one Taal and one Raag out of the prescribed Taals and Raags in syllabus. It will be for 4 minutes and will carry 5 marks.
- 5. Demonstration /performance regarding Alankara/ Dhun. It will be for 4 minutes and carry 5 marks.

SYLLABUS (PRACTICAL)

- 1. One Drut Gat with short Alaap, Toras and Jhalla in each of the following Raags.
 - i. Bhairav
 - ii. Malkauns
 - iii. Bhimplasi
 - iv. khamaaj
- 2. One slow Gat with short Alaap and Toras in any of the prescribed Raags in the syllabus.
- 3. Ability to demonstrate Ek taal, Tilwara Taal, Dhamaar taal, Sultal and jhap taal by hand with reciting bols in Ikgun and Dugun layakari.
- 4. Ability to play one gat in Ek Taal or Jhap Taal.
- 5. Ten Alankars.
- 6. One Dhun in any Raag.

Note:- The book Published and Prescribed by the Punjab School Education Board:-

Sangeet Vadan-12 (Instrumental)

CLASS-XII 26. MUSIC (TABLA)

Time: 3 Hrs Theory: 60 Marks
Time: 20 mints (per student) Practical: 30 Marks

CCE: 10 Marks Total: 100 Marks

STRUCTURE OF QUESTION PAPER (THEORY)

1. The question paper will comprise of 22 questions in total.

- 2. All questions will be compulsory to attempt.
- 3. The question paper will consist of three parts with each part representing both sections.

Part-I will consist of 7 objective type questions (Q. no. 1 to 7) carrying one mark each. Objective type questions may include questions with one word to one sentence answer.

7×1=7 Marks

Part-II will consist of 11 short answer type questions (Q. no. 8 to 18) carrying three (3) marks each. Answer of each question should be given with in 60-80 words.

11×3=33 Marks

Part-III will consist of 4 long answer type questions (Q. no. 19 to 22) with internal choice (from section A and B) carrying 5 marks each. Answer of each question should be given with in 150-200word. 4×5=20 Marks

SECTIONWISE DISTRIBUTION OF QUESTIONS AND MARKS

Type of Questions	Marks of per Question	No. of Questions	Section-wise Distribution of Questions		Total Marks
			Section-A	Section-B	
Objective Type	1 mark	07	3	4	7
Short Answer Type	3marks	11	6	5	33
Essay Type	5marks	04	2	2	20
Total Questions		22	11	11	60

SYLLABUS (THEORY) PART-A

- 1. Defination of the following :- Uthan, Peshkar, Paran, Tehai, Duppali, Tippali, Rela, Nagma.
- 2. Principles of formation of Taal.
- 3. Essay on importance of Laya and Taal in music and importance of Tabla in music. .
- 4. Comparative study of Tabla and Pakhawaj Vadan.
- 5. Taal and its ten Parans.
- 6. Brief introduction of Gharanas of Tabla.
- 7. Priciples of Tabla solo Vadan.
- 8. Biographical sketches of the following Tabla maestro:
 - a. Pt. Kanthe Maharaz
 - b. Pt. Shamta Prasad
 - c. Ustad Zakir Hussian

d. Ustad Laxaman Singh Seen.

PART-B

- 1. Introduction and notation of the following Taals with Ikgun, Dugun, Tigun and Chougun Layakaries: (i) Rupak Taal (ii) Jhap Taal (iii) Ek Taal (iv) Deepchandi (v) Teen Taal (vi) Punjabi Theka (Chhota Teen Taal)
- 2. Description and comparison of the following Taals:
 - a. Teen Taal- Punjabi Theka
 - b. Deepchandi- Dhamar Taal
 - c. Rupak Taal- Tivra Taal
- 3. Notation of the following material in Teen Taal, Jhap Taal, Rupak Taal: Peskhar, Kayada, Tehai, Paran, Rela and Tukra.
- 4. Recognition of Teen Taal, Deepchandi, Punjabi Theka, Dhamar, Rupak, Tivra Taals through some Bols.
- 5. Notation of Nagama in prescribed Taals.

STRACTURE OF QUESTION PAPER (PRACTICAL)

There should not be more than 9 students in a batch of practical examination. The examiner will set the question paper on the spot. While setting the question paper in practical examination, the examiner must consider the syllabus in theory and will follow the following instructions.

- 1. Demonstration/performance of any one Taal out of the prescribed syllabus. The choice of the Taal will be of the student. It will be for 6 minutes and shall carry 7½ marks.
- 2. Demonstration/performance of any one Taal out of the prescribed syllabus. The choice will be of the examiner. It will be for 4 minutes and shall carry 7½marks.
- 3. Demonstration/performance of Padhant (pronouncing the Bols of Taal) in Ikgun and Dugun layakaries. It will be for 4 minutes and carry 5 marks.
- 4. Students will be given 4 varans of prescribed Taals. He/she will have to recognize any two, It will be for 2 minutes and will carry 5 marks.
- 5. Any two laggies with Tihai in Rupak Taal. It will be for 4 minutes and carry 5 marks.

SYLLABUS (PRACTICAL)

- 1. System solo performance of the following Taals: Ek Taal and Teen Taal, Teewra Taal, Rupak Taal.
- 2. Few Laggis in Rupak Taal.
- 3. To play Thekas in Ikgun and Dugun Layakaries in Deepchandi, Teen Taal and Chhota Teen Taal, Rupak, Jhap Taal and Ek Taal.
- 4. Recognition of Taals.
- 5. Tuning of Tabla.
- 6. Ability to play Nagama on Harmonium in any Taal of your syllabus.
- 7. Ability to Padhant showing Tali and Khali of Taals in Ikgun and Dugun Layakaries.

CLASS-XII 27. DANCE

Time: 3 Hrs
Time: 20 mints (per student)
Theory: 60 Marks
Practical: 30 Marks

CCE: 10 Marks Total:100 Marks

STRUCTURE OF QUESTION PAPER (THEORY)

1. The question paper will comprise of 22 questions in total.

2. All questions will be compulsory to attempt.

3. The question paper will consist of three parts with each part representing both sections.

Part-I will consist of 7 objective type questions (Q. no. 1 to 7) carrying one mark each. Objective type questions may include questions with one word to one sentence answer. 7×1=7 Marks

Part-II will consist of 11 short answer type questions (Q. no. 8 to 18) carrying three (3) marks each. Answer of each question should be given with in 60-80 words.

11×3=33 Marks

Part-III will consist of 4 long answer type questions (Q. no. 19 to 22) with internal choice (from section A and B) carrying 5 marks each. Answer of each question should be given with in 150-200word. 4×5=20 Marks

SECTIONWISE DISTRIBUTION OF QUESTIONS AND MARKS

Type of Questions	Marks of per	No. of	Section-wise	Total	
	Question	Questions	Questions	Questions	
			Section-A	Section-B	
Objective Type	1 mark	07	3	4	7
Short Answer Type	3marks	11	6	5	33
Essay Type	5marks	04	2	2	20
Total Questions		22	11	11	60

SYLLABUS (DANCE)

PART-A

- 1. Knowledge of the Kathak dance.
- 2. Definition of the following terms: Laya, Taal, Theka, Paran, Chakkardaraparan, Kavit, Gat-nikas.
- 3. Knowledge of Hasta Mudras (Sanyukta) based on Abhinaya Darpana.
- 4. Knowledge of the following Dances:
 - i. Bharata Natayam
 - ii. Lasya
- 5. Life sketch of Udey Shanker.
- 6. Knowledge of Rasa and Bhava and their application in Dance.
- 7. Knowledge of folk dance of Punjab.

PART-B

- 8. Definition and comparative study of Teen Taal and Jhap Taal.
- 9. Ability to write the following material in prescribed Taals given below:
 - i. Teen Taal: One Thaat, one Amad, Two Tukras, one Salami, one Paran, two Toras, one Kavit.
 - ii. Jhap Taal: One Thaat, one Tehai, one Amad, one salami, one Tora.
- 10. Ability to recognize the Layakari (Ikgun, Dugun, Tigun and Chougun) through some Bole from Teen Taal and Jhap Taal.

STRACTURE OF QUESTION PAPER (PRACTICAL)

There should not be more than 9 students in a batch of practical examination. The examiner will set the question paper on the spot. While setting the question paper in practical examination, the examiner must consider the syllabus in theory and will follow the following instructions.

- 1. A systematic dance performance in any Taal out of the prescribed syllabus as per the choice of student. It will be for 6 minutes and shall carry 7½ marks.
- 2. A systematic dance performance in any Taal out of the prescribed syllabusas per the choice of the examiner. It will be for 4 minutes and will carry 7½ marks.
- 3. Demonstration/performance of any Taal in Ikgun, Dugun layakaries. It will be for 4 minutes and shall carry 5 marks.
- 4. Student will be given some Bols out of the prescribed Taals.m He/She will have to recognize two out of these. It will be for 2 minutes and will carry 5 marks.
- 5. Padhant of prescribed Taal and layarkries on hand. It will be for 4 minutes and carry 5 marks.

SYLLABUS (PRACTICAL)

Systematic performance of the following Taals:

- I. (a).Teen Taal:
 - (i) Four varaties of advance Tatkar, in Ikgun and Dugun layakaries.
 - (ii) One Thaat
 - (iii) One Amad
 - (iv) two simple Tukras
 - (v) One Salami
 - (vi) One Paran
 - (vii) One Kavit.
 - (b) Jhap Taal:-
 - (i) One Thaat
 - (ii) one Tehai
 - (iii) one Amad
 - (iv) one Salami
 - (v) one Tora.
- II. Padhant of Thekas of Teen Taal and Jhap Taal in Ikgun, Dugun and Chougun layakaries by hand.
- III. Padhant of all material in Teen Taal by hand.

CLASS-XII 28. PHILOSOPHY

Time: 3 Hrs

Theory: 90 Marks

CCE: 10 Marks

Total: 100 Marks

STRUCTURE OF QUESTION PAPER

- 1. All questions are compulsory.
- 2. The question paper will comprise of 4 sections A, B, C and D of four questions with 32 sub parts to be attempted.
- 3. All units of the syllabus should be given adequate representation in the question paper.

SECTION- A

Objective Type Questions: Question No. 1 will have ten Parts (I to X) and each Part will carry 1 mark. This section will include questions with one word answer/ fill in the blank/ true or false/multiple choice type questions.

 $1 \times 10 = 10$

SECTION-B

Very Short Answer Type Questions: Question No. 2 comprises of 10 sub parts (questions I to X) carrying 2 marks each. Answer to each question should be in about 20-30 words. All Questions are compulsory. $2 \times 10 = 20$

SECTION- C

Short Answer Type Questions: Question No. 3 comprises of 6 sub parts (I to VI) out of which students have to attempt any 6 question carrying 4 marks each. Answer to each question should be in about 50-60 words.

4×6= 24

SECTION- D

Long Answer Type Questions: Question No. 4 comprises of 6 sub parts (questions I to VI) carrying 6 marks each. Answer to each question should be in about 100-150 words. Three will be 100% internal choice in these questions. $6\times6=36$

Note:- Weightage to each unit must be given in each type of questions as appropriate.

Typology of	Number of	Marks	Division o	Total	
Questions	questions	Division	Part A	Part B	marks
			Unit 1,2,3,4	Unit 5,6,7,8	
A. Objective Type	10	01 mark	5	5	10 Marks
Questions					
B. Very Short	10	02 marks	5	5	20 Marks
Answer questions					
C. Short Answer	06	04 marks	3	3	24 marks
Questions					
D. Long Answer	06	06 marls	3	3	36 Marks
Type Questions					
Total	32		16	16	90

SYLLABUS (PART-A)

UNIT I Scientific Method: its nature; difference between this method and common sense thinking.

UNIT II Hypothesis: Its meaning, its place in scientific method; formulation of a relevant hypothesis.

UNIT III Explanation: its meaning, popular and scientific explanation, kinds and limits of scientific explanation.

UNIT IV Propositions: Meaning /traditional, analysis of propositions,
Various divisions of propositions. Inference: Its Nature and
Kinds-Immediate Inference, opposition, observation and
conversion

UNIT V Knowledge: Sources of Knowledge, Nature and theories of truth.

UNIT VI Schools of Philosophy: Idealism and Materialism.

UNIT VII Indian Philosophy: Its nature and salient features.

UNIT VIII (a) The Philosophy of Bhagwad-Gita-Karma Yoga.

(b) Sikhism: Its salient features; concepts of Sewa

CLASS-XII 29. EDUCATION

Time: 3 Hrs

Theory: 90 Marks

CCE: 10 Marks

Total: 100 Marks

STRUCTURE OF QUESTION PAPER

- 1. All questions are compulsory.
- 2. The question paper will comprise of 4 sections A, B, C and D of four questions with 32 sub parts to be attempted.
- 3. All units of the syllabus should be given adequate representation in the question paper.

SECTION- A

Objective Type Questions: Question No. 1 will have ten Parts (I to X) and each Part will carry 1 mark. This section will include questions with one word answer/ fill in the blank/ true or false/multiple choice type questions.

 $1 \times 10 = 10$

SECTION-B

Very Short Answer Type Questions: Question No. 2 comprises of 10 sub parts (questions I to X) carrying 2 marks each. Answer to each question should be in about 20-30 words. All Questions are compulsory. $2 \times 10 = 20$

SECTION- C

Short Answer Type Questions: Question No. 3 comprises of 6 sub parts (I to VI) out of which students have to attempt any 6 question carrying 4 marks each. Answer to each question should be in about 50-60 words. **4×6= 24**

SECTION- D

Long Answer Type Questions: Question No. 4 comprises of 6 sub parts (questions I to VI) carrying 6 marks each. Answer to each question should be in about 100-150 words. Three will be 100% internal choice in these questions. $6\times6=36$

Note:- Weightage to each unit must be given in each type of questions as appropriate.

Typology of	Number of	Marks	Division of Syllabus		Total
Questions	questions	Division	Part A	Part B	Marks
			Unit 1to2	Unit 3 to 4	
A. Objective Type	10	01 mark	5	5	10 Marks
Questions					
B. Very Short	10	02 marks	5	5	20 Marks
Answer questions					
C. Short Answer	06	04 marks	3	3	24 marks
Questions					
D. Long Answer	06	06 marls	3	3	36 Marks
Questions					
Total	32		16	16	90

SYLLABUS

Principles and Techniques of Education.

UNIT-I Education in Ancient and Modern India. Education and Society: Relation between the two.

UNIT-II (a) Educational Structure: Primary to University (10+2+3):

- (b) Teaching Aids- Chart, Models, Computers, Radio & Television, Chalk, Black Board, Posters, Cartoon, and Projections.
- (c) Methods of Teaching: Lecture-method, Discussion-method, Project- method, Demonstration- method.
- (d) Teacher, his qualities and preparation.

Unit-III Educational Psychology: Its meaning and Scope: its importance for the teacher.

Unit-IV Management of Education:

(a) District Level : D.E.O Secondary

: D.E.O Primary

: B.P.E.O.

(b) State Level : Education Ministry, Education Directorates,

College Secondary Education, Primary

Education

Allied organizations: (a) S.C.E.R.T., (b) S.I.S.E.

(c) Centre Level: Ministry of Education, Central Secretariat and

allied institutions. N.C.E.R.T, C.B.S.E. and

U.G.

CLASS-XII 30. GEOGRAPHY

Time: 3 Hrs

Theory: 70 Marks

CCE: 10 Marks

Practical: 20 Marks
Total: 100 Marks

Structure of Question Paper

1. First question shall have 8 sub-parts, all objective type compulsory questions from Unit-II to Unit-IV. Each question shall carry one mark and shall be answered in a few words or a sentence or may be of multiple choice. Atleast two questions to be set from each unit i.e. from Unit-II to Unit-IV.

- 2. Second question shall have 8 sub-parts, each carrying 2 marks. Answer of each question shall run into 2 to 3 sentences. Atleast one question shall be set from Unit-I to Unit-V. 2×8=16
- Third question shall contain 8 sub-parts, out of which 5 shall be to be answered in 60 to 80 words. One question shall be set from Unit-I to Unit-V atleast, in this part.
- 4. Question no. 4 to 6 shall be pairs of questions covering all the five units and one from each pair shall be answered in 150 to 250 words by the examinee.

 6×3=18
- 5. Question No.7 & 8 relate to map work related to India.(4 marks for labeling and 4 marks for marking on outline map of India)

 2×4=8

Note: Blind students shall answer the questions related to map work in lieu of map filling.

				ı		
Forms of	Objective	type	Short	Short	Map	Long
Questions	Multiple o	choice	Answer-I	Answer-II	work	Answer
	Questions					Questions
Number of	08		08	05	08	03
Questions						
Marks	08		16	20	08	18
allotted						
Percentage	12.5		23	27	12.5	25
of Marks						

Syllabus

Unit-I

Nature & Scope of Geography & its branches:

- Geographical thoughts, Brief introduction of determinism and possibalism, Radical and post modern geography.
- Contribution of A.V. Humbodlt, Carl Ritter, Paul Vidal de La Blache and E.C. Sample and all branches of Geography in brief.

Unit-II

Human resources:

- Population; Distribution, Density & Growth, Age-sex ratio,
 Urbanisation, Literacy
- Determinants of population change, Geography of Indian Diaspora, Migration Causes & consequences Demographic transition theory
- Human development concept; Selected indicators, International comparison, Punjab's rank in national HDI
- Human Settlement: Rural & Urban, Urbanisation in India and its impact, Distribution of Mega cities, concept of smart cities, Growth pole and Growth centres.

Unit-III

Economic Geography: Types of Economic Activities

Primary Activities:

- Concept of changing trends; gathering; pastoral; mining, subsistence agriculture, Modern trends in agriculture with special reference to Punjab, Organic farming.
- Geographical distribution of major crops in India (Wheat, Rice, Tea, Coffee, cotton, Jute, Sugarcane)

Secondary Activities

- Concept, Manufacturing types (House hold, Small scale, Large scale, Agro based and Mineral based industries with special reference to Punjab) Distribution of Metallic (Iron-ore, Copper, Bauxite, Maganese), Non-metallic, Conventional (Coal, Petroleum, Natural Gas), Non-Conventional (solar, wind, tidal) resources and their conservation
- Industries: Types, Distribution of selective industries (Iron & steel, Cotton textile, Sugar, Pharmaceutical Petrochemical and Knowledge based Industries) FDI and its impact on Indian industries, Industrial Corridors, Dedicated Freight Corridors)

Tertiary Activities:

• Quaternary activities, Quinery Services, People engaged in tertiary industries, A case study from Punjab.

Unit-IV

Transport, Communication & Trade

• Land transport; Roads (North-South & East-West corridors, Golden Quadrilateral), Railways; Transcontinental Railways, New Numbering Scheme of National highways.

- Water Transport; Inland, Major ocean routes in the world.
- Air Transport, Oil and Natural Gas pipelines (TAPI, HBJ, Indo-Iranian Naharkatia-Nunmati-Barauni, Bathinda-Kandla pipeline, L.P.G. Gaspipelines)
- International and National trade, Sea-port and their Hinterlands and major airports)
- International trade bases and changing patterns, International Organisations with special reference to India, Role of WTO in International trade.

Unit-V

- Geographical Perspective on selective issues and problems
- Environmental pollution; Land, water, air
- Geography of superlatives in India

Unit-VI (Practical Work)

- Types of data: Primary, Secondary & other sources
- Representation of data; Construction of diagrams; Bars, Circle and Flow charts
- Thematic Maps; Construction of dot, Choropleth and Isopleths with base map of Punjab
- Data analysis and generation of diagrams graphs with the help of computers
- Field Studies and Land Use survey.
- Satellite Communication, Geographic Information System and Global Positioning system (GPS) definitions only.

CLASS-XII 31. DEFENCE STUDIES

Time: 3 Hrs

Theory: 70 Marks

Practical: 20 Marks

CCE: 10 Marks
Total: 100 Marks

STRUCTURE OF QUESTIONS PAPER (THEORY)

1. There will be 20 Questions in all.

- 2. All questions are compulsory.
- 3. There will be 10 questions of one Mark each & these questions will be objective type. $10 \times 1 = 10 \text{ Marks}$
- 4. There will be 8 questions of 5 Marks each. 8×5=40 Marks
- 5. There will be 2 questions of 10 Marks each with internal choice.

2×10=20 Marks

SYLLABUS Group- A

- 1. Elements of Strategy: Various definitions, distinctions between grand strategy, strategy and tactics type of strategy.
- 2. Armed forces of India's neighbours with special reference to Pakistan, China, Nepal, Bangladesh, and Sri Lanka.
- 3. Higher Defence Organization in India
 - (a) Defence Minister's committee.
 - (b) Chief of Staff's Committee.
- 4. Elements of Evolution of tactics: means of collection and interpreting information troop movements, operational and verbal orders, attack, defence and withdrawal.
- 5. Higher Defence organizations in India.
 - (a) Defence Committee of the Cabinet.
 - (b) National Defence Council.
 - (c) Powers of the President in relation to armed forces.
- 6. Organization of India's Armed forces.
 - (a) Equivalent ranks in the Armed forces.
 - (b) Role and Characteristic of Army, Navy and Air Force.
 - (c) Army: Integrated Headquarters, static and field formation, Elementary knowledge of the following weapons.
 - 5.56mm INSAS Rifle, 7.62mm MMG, LMG 9 mm Carbine, Grenade, Morter, Rocket Launcher, Antitank weapons: Tanks and APC
 - (d) Navy: Headquarters, Commands, Type of Ships and Submarines.
 - (e) Air Force, Headquarters, Commands, Types of service, Air Crafts of India.

PAPER-II VIVA VOCE (PRACTICAL)

Note: In viva voce paper the lecture will be of 10 Marks and interview of 10 Marks. Each student will give a lecture in presence of audience for 5-10 minutes on the topic of his own choice out of the topics in the syllabus.

- **1. Lecture :** Each student will be required to give a talk (and not paper reading for 5-10 minutes) on any one of the under mentioned topics.
 - (a) Strategy of indirect approach.
 - (b) Elements of tactics.
 - (c) Role of Navy in India's Defence.
 - (d) Static and field formations.
 - (e) Armed Forces of Pakistan.
 - (f) Types of Service Air Crafts of India.
 - (g) Armed Forces of china.
- **2. Interview :** The examiner may ask the candidate any questions from topics mentioned in the list of topics for lecture.

CLASS-XII 32. PSYCHOLOGY

Time: 3 Hrs
Time: 3 Hrs
Practical:20Marks
COR 10 M 1

CCE: 10 Marks Total: 100 Marks

STRUCTURE OF QUESTION PAPER

1. The Question paper will comprise of 26 questions in total.

- 2. All questions will be compulsory to attempt.
- 3. The question paper will consist of four parts:
- **Part-I** will consist of eight (8) objective type questions (Q.No.1 to 8) carrying 1 mark each. Objective type questions may include questions with one word to one sentence answer **or** fill in the blank **or** true/false **or** multiple choice type questions. 8×1=8
- **Part-II** will consist of eight (8) short answer type I, questions (Q. No. 9 to 16) carrying 2 marks each. Answer of each question should be given in 50-60 words. 8×2=16
- **Part-III** will consist of seven (7) short answer type II, questions (Q. No. 17 to 23) carrying 4 marks each. Answers of each question should be given in 80-90 words. Out of seven, two internal choice questions will be asked.

 7×4=28
- **Part-IV** will consist of three (3) long answer type questions with internal choice (Q. No. 24 to 26) carrying 6 marks each. Answer of each question should be given in approximately two pages of the answer sheet.

 3×6=18

UNITWISE DISTRIBUTION OF QUESTIONS AND MARKS

Type of	Marks	No. of		Unitwise Distribution Of Questions					Total		
question	per question	questions	Unit- I	Unit- II	Unit- III	Unit- IV	Unit- V	Unit- VI	Unit -VII	Unit- VIII	Marks
Objective type	1 Mark	8	1	1	1	1	1	1	1	1	8
Short answer type-I	2 Marks	8	1	1	1	1	1	1	1	1	16
Short answer type-II	4 Marks	7	1	1	1	1	1	1	1	-	28
Long answer type	6 Marks	3	-	-	-	-	-	1	1	1	18
To	otal	26	3	3	3	3	3	4	4	3	70

SYLLABUS

Unit I Growth and Development: Difference between Growth and Development, Principles of Growth and Development. Stages of Growth and Development, Physical, Mental, Emotional and Social, Characteristics of Adolescence, Effect of Heredity and Environment in Growth and Development.

- Unit II Emotions: Definition, Concept and Characteristics of Emotions,
 Physical and Physiological changes accompanying emotions.
 Difference between emotions and feelings, Important emotions:
 Fear, Anger and Aggression, Jealousy, Love, Happiness, Curiosity.
- **Unit III** Motivation: Meaning, Definition and Characteristics of Motivated behaviour, Classes and types of Motives and Needs, Maslow's Theory of Hierarchy of needs. Instincts, Drives, Incentives and goals as Motives. Frustrations and Conflicts of Motives.
- Unit-IV Thinking, Reasoning and Problem Solving: Definition, types and stages of Thinking-images and Thinking Languages and Thinking.
 Reasoning Definition, Characteristics, steps and types of Reasoning Problem solving Creative thinking Concepts : Definition, type of formation of concepts.
- Unit-V Delinquency and Mental Health: Delinquent Behavior, Definition, Characteristics, Causes, Remedial and Preventive Measures - Mental Health: Meaning and Definition - Characteristics of a 'Mentally healthy person, Defence Mechanism.
- Unit-VI Intelligence: Definition, Nature and theories: Spearman's two theory and Thrnstone's Primary Mental Abilities theory Concept of I.Q. Measurement of Intelligence Intelligence Tests Relative Role of Heredity and Environment on the development of Intelligence.
- Unit-VII Personality: Definition, Nature, Characteristics and Traits of Personality Classification of Personality: Sheldon's Jung's and Eysenck's Classifications-Theories of Personality, Freud's Psychoanalytical theory - Jung's Analytical theory, Allport's theory of cardinal traits, Carl Roger's theory of self, Adler's theory of will power.
- **Unit-VIII** Statistics: Frequency distribution, Mean, Median, Mode, Mean Deviation, Standard Deviation, Quartile Deviation. (Only numerical will be set from this unit.)

Experiments:

- 1. Muller Lyer Illusions
- 2. Maze learning.
- 3. Card Sorting
- 4. Problem Solving
- 5. Intelligence test-Verbal
- 6. Intelligence test-Non-Verbal
- 7. Imagery Types.
- 8. Personality Inventory

CLASS-XII 33. HOME SCIENCE

Time: 3 Hrs

Time: 3 Hrs

Theory: 60 Marks

Practical: 30 Marks

CCE: 10 Marks Total: 100 Marks

STRUCTURE OF QUESTION PAPER (Theory)

The question paper will comprise of 22 questions in total.

All questions will be compulsory to attempt.

The question paper will consist of three parts with each part representing both sections.

- **Part-I** will consist of 7 objective type questions (Q. no. 1 to 7) carrying one mark each. Objective type questions may include questions with one word to one sentence answer **or** fill in the blank **or** true/false **or** multiple choice type questions.

 7×1=7
- **Part-II** will consists of 11 short answer type questions (Q. no. 8 to 18) carrying 3 marks each. Any four questions out of 11 will carry internal choice (two from each section). Answer of each question should be given within 60-80 words.

 11×3=33
- **Part-III** will consist of 4 long answer type questions (Q. no.19 to 22) with internal choice (from the same section) carrying 5 marks each. Answer of each question should be given within 150-200 words.

 4×5=20

SECTIONWISE DISTRIBUTION OF QUESTIONS AND MARKS

Type of question	Marks per question	No. of Questions	Section wise Distribution of questions		Total Marks
			Section A	Section B	1
Objective type	1 Mark	7	3	4	07
Short answer type	3 Marks	11	6	5	33
Long answer type	5 Marks	4	2	2	20
Total	I	22	11	11	60

SYLLABUS (THEORY) SECTION – A (Food and Nutrition)

1. Food, Nutrition and Health

- Definitions: Food, Nutrition, Health, Nutrients, Nutrient density, Malnutrition, Recommended Dietary Allowances, Nutritional Status, Functional Food, Nutraceuticals, Antioxidants, Geriatrics, Probiotics.Functions of food
- ii. Classification of Food groups based on the recommendation of ICMR
- iii. Balanced Diet
- iv. Food Guide pyramid

2. Nutrients and nourishment

Carbohydrates, Proteins, Fats, Minerals (calcium, Phosphorus, iron, zinc, iodine, fluorine), Vitamins (A,D,E,K,B and C) and Water

- i. Functions and sources
- ii. Health effects of too little and too much of nutrients
- iii. Enhancing nutritional value of foods

3. Meal Planning

- i. Meaning, importance and principles of meal Planning
- ii. Planning meals for the family- Children (Infants, pre schoolers and school going children), adolescents (boys and girls), adults (men and women), pregnant women, lactating mothers and elderly.

4. Food selection, storage, preparation and preservation at home

- i. Food selection and storage
- ii. Preparation of food: Different methods of cooking
- iii. Food preservation at home importance and methods

5. Food Safety

- i. Food hygiene
- ii. Food Adulteration
- iii. Removal of the pesticide residues from food by different methods.

6. Diet therapy

- i. Principles of diet therapy
- ii. Adaptation of normal diet for therapeutic purpose

SECTION -B (Human Development)

1. Beginning of Motherhood

- i. Signs, discomforts and warning signs of pregnancy
- ii. Antenatal care of expectant mother (diet, rest, exercise, medical check-ups and immunization)
- iii. Alternative reproductive methods (in vitro fertilization, gamete intrafallopian transfer, zygote intrafallopian transfer and Surrogacy

2. Prenatal Physiological Processes

- i. Stages of prenatal development (germinal, embryonic and fetal)
- ii. Fetal monitoring techniques (ultrasound, chorionic villus sampling, amniocentesis and foetoscopy)
- iii. Environmental influences on prenatal development (teratogens, diseases, harmful drugs and x-ray)

3. Birth process

- i. Stages of birth process (dilation, expulsion and placental stage)
- ii. Types of child birth (natural, instrument, breech and caesarean)
- iii. Categories of new born babies (pre term, term and post-term)

4. Postnatal care of mother

i. Meaning and purpose of postnatal care

- ii. Aspects of postnatal care
- iii. Effects of parenthood on mother, father and other family members

5. Care of newborn

- i. Characteristics of new born
- ii. Neonatal reflexes
- iii. Feeding, bathing and clothing of newborn
- iv. Immunization
- v. Developmental milestones and delays

6. Infant stimulation

- i. Mother-child interaction
- ii. Developmentally appropriate play material
- iii. Common childhood ailments

HOME SCIENCE

STRUCTURE OF QUESTION PAPER (PRACTICAL)

Time: 3 Hours Marks:30

There should not be more than 25 candidates in a group. The Practical question paper will consist of two sections. Distribution of Marks will be as follows:

1. Viva Voce, Notebook & Record

10 Marks

Section-A

(Food and Nutrition)

- 2. Any one practical based on practical no. 2, 3, and 4 5Marks
- 3. Any two tests based on practical no. 5

5 Marks

Section-B

(Child Development and Mother Craft)

4. Any one practical based on practical no. 4 and 5.

5 Marks

5. Any one practical based on practical no. 6 and 7.

5 Marks

SYLLABUS (PRACTICAL)

Section-A (Food and Nutrition)

- 1. Preparation of list of foods available in your home according to food groups.
- 2. Preparation of
 - a) Healthy salads
 - b) Dishes enhancing nutrition value of food (by Combination of cereals, pulses and vegetables, fermentation and sprouting)
 - c) Protein rich snacks and desserts.
- 3. Freezing and sun drying of blanched vegetables.
- 4. Preparation of ORS solution.
- 5. Simple tests for checking adulteration in:
 - a) Cereals: rice, semolina (suji).
 - b) Pulses: Bengal Gram (channa dal)

- c) Milk
- d) Tea leaves
- e) Coriander powder
- f) Turmeric powder
- g) Powdered sugar
- h) Black pepper

Section-B

(Child Development and Mother Craft)

1. Showing a documentary on neo-natal reflexes and care and management of pre-term

babies

(http://www.vhai.org/ceo/filmsforchange.php)

- 2. Recording of immunization schedule of infants and children
- 3. Demonstration on feeding, bathing and clothing of newborn
- 4. Preparing developmentally appropriate play material
- 5. Demonstration on sterilization of feeding bottles and disinfecting clothing of infants
- 6. Preparation of weaning foods- liquid and semi-solids
- 7. Preparation of visual aids related to developmental milestones of infancy
- 8. Showing a documentary on family planning methods (http://www.vhai.org/ceo/filmsforchange.php)

Films:

- Aparajita
- Anant

Oriented videos: • Neo-Natal

• Aaj Ki Na Samajhi Kal Ki Pareshani

CLASS-XII 34. MODELLING AND SCULPTURE

ਮਾਡਲਿੰਗ ਅਤੇ ਬੁੱਤਕਾਰੀ

หਮਾਂ:8 พ์่*c* **บุ**ਯิਗੀ: 9**● ਅੰ**ਕ

ਸੀ.ਸੀ.ਈ.: 1● ਅੰਕ

ਕੁੱਲ: 1●● ਅੰਕ

ਨੌਟ:-1. ਇਹ ਪੇਪਰ ਪੂਰਨ ਪ੍ਯੋਗੀ ਹੈ ਅਤੇ ਪ੍ਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਰਾਹੀਂ ਬੋਰਡ ਵੱਲੋਂ ਨਿਯਤ ਡੇਟਸ਼ੀਟ ਅਨੁਸਾਰ ਲਿਆ ਜਾਵੇਗਾ।

2. ਮਿੱਟੀ ਜਾਂ ਪੀ.ਓ.ਪੀ. ਪ੍ਰੀਖਿਆਰਥੀ ਖੁਦ ਨਾਲ ਲੈਕੇ ਆਵੇਗਾ।

	ਸਮਾਂ	ਸ਼ੈਸ਼ਨ
ਪਹਿਲਾ ਪੇਪਰ	4 ਘੰਟੇ	ਸਵੇਰ
ਦੂਜਾ ਪੇਪਰ	4 ਘੰਟੇ	ਸ਼ਾਮ

STRUCTURE OF QUESTION PAPER

ਪ੍ਰਸ਼ਨ-ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

- ਇਹ ਪੇਪਰ ਪ੍ਰਯੋਗੀ ਡੇਟ ਸ਼ੀਟ ਅਨੁਸਾਰ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਵੱਲੋਂ ਲਿਆ ਜਾਵੇਗਾ। ਇਸਦੇ 38 ਅੰਕ ਹੋਣਗੇ।
 ਇਹ ਸਵੇਰ ਦੇ ਸੈਸ਼ਨ ਵਿੱਚ ਲਿਆ ਜਾਵੇਗਾ। ਇਸ ਦਾ ਸਮਾਂ ਚਾਰ ਘੰਟੇ ਹੋਵੇਗਾ। ਇਸ ਵਿੱਚ ਪਸ਼ੂ, ਪੰਛੀ, ਜਾਨਵਰ ਅਤੇ ਮਨੁੱਖੀ ਸਰੀਰ ਦੇ ਬੁੱਤ ਤਿਆਰ ਕੀਤੇ ਜਾਣਗੇ।
- ਦੋਨਾਂ ਸੈਸ਼ਨਾਂ ਦੇ ਵਿਚਕਾਰ ਇੱਕ ਘੰਟੇ ਦੀ ਛੁੱਟੀ ਹੋਵੇਗੀ। ਉਸ ਦੌਰਾਨ ਸੈਸ਼ਨਲ ਵਰਕ ਚੈੱਕ ਕਰਕੇ ਮੁਲਾਂਕਣ ਕੀਤਾ ਜਾਵੇਗਾ।
- ਦੂਜੇ ਸ਼ਾਮ ਦੇ ਸੈਸ਼ਨ ਵਿੱਚ ਮਨੁੱਖੀ ਸਿਰ ਦਾ ਬੁੱਤ ਤਿਆਰ ਕਰਵਾਇਆ ਜਾਵੇਗਾ। ਇਹ ਕੰਮ ਚਾਰ ਘੰਟੇ ਵਿੱਚ ਪੂਰਾ ਕੀਤਾ ਜਾਵੇਗਾ। ਇਸਦੇ 38 ਅੰਕ ਹੋਣਗੇ।
- 4. ਸਾਰੇ ਪੇਪਰਾਂ ਦਾ ਮੁਲਾਂਕਣ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਕਰਕੇ ਨੰਬਰ ਸੂਚੀਆਂ ਸਬੰਧਤ ਅਧਿਕਾਰੀ ਨੂੰ ਆਪਣੇ ਹਸਤਾਖਰ ਕਰਕੇ ਮੋਹਰ ਬੰਦ ਲਿਫ਼ਾਫੇ ਵਿੱਚ ਭੇਜੇਗਾ।
- 5 ਸਾਰੇ ਸਾਲ ਵਿੱਚ ਘੱਟੋ-ਘੱਟ 2● ਵਸਤੂਆਂ ਤਿਆਰ ਕੀਤੀਆਂ ਜਾਣਗੀਆਂ, ਜਿਸਦੇ 14 ਅੰਕ ਹੋਣਗੇ।

ਨੋਟ:- ਮਿੱਟੀ ਜਾਂ ਪੀ.ਓ.ਪੀ. ਪ੍ਰੀਖਿਆਰਥੀ ਖੁਦ ਨਾਲ ਲੈਕੇ ਆਵੇਗਾ।

ਪਾਠ-ਕ੍ਰਮ

ਭਾਗ−1

ਬਨਾਵਟ ਅੰਕ: 38

1. ਮਿੱਟੀ ਜਾਂ ਪਲਾਸਟਰ ਆਫ ਪੈਰਿਸ (P.O.P) ਦੁਆਰਾ ਪੰਛੀ, ਜਾਨਵਰ ਅਤੇ ਮਨੁੱਖੀ ਸਰੀਰ ਦੇ ਬੁੱਤ ਤਿਆਰ ਕਰਨੇ। ਭਾਗ–II

ਪੋਰਟਰੇਟ ਸਟਡੀ (Portrait Study)

ਅੰਕ: 38

1. ਮਨੁੱਖੀ ਸਿਰ ਦਾ ਮਿੱਟੀ ਜਾਂ ਪਲਾਸਟਰ ਆਫ ਪੈਰਿਸ (P.O.P) ਦੁਆਰਾ ਬੁੱਤ ਤਿਆਰ ਕਰਨਾ। ਜਿਸ ਵਿੱਚ ਚਿਹਰੇ ਦਾ ਅਨੁਭਵ ਪ੍ਰਗਟ ਹੋਵੇ।

ਭਾਗ–III

ਸੈਸ਼ਨਲ ਵਰਕ ਅੰਕ: 14

ਸਾਰੇ ਸਾਲ ਵਿੱਚ ਤਿਆਰ ਕੀਤੀਆਂ ਘੱਟੋ-ਘੱਟ ਵੀਹ ਵਸਤੂਆਂ ਜੋ ਕਿ ਪ੍ਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਚੈੱਕ ਕਰੇਗਾ ਅਤੇ ਅੰਕ ਲਾਵੇਗਾ। ਪ੍ਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਦੁਆਰਾ ਵਿਸ਼ੇ ਸਬੰਧੀ ਜ਼ੂਬਾਨੀ ਪ੍ਰਸ਼ਨ ਵੀ ਪੁੱਛੇ ਜਾ ਸਕਦੇ ਹਨ।

CLASS-XII

35.GEOMETRICAL PERSPECTIVE AND ARCHITECTURAL DRAWING ਜਿਊਮੈਟਰੀਕਲ ਪਰਸਪੈਕਟਿਵ ਅਤੇ ਆਰਕੀਟੈਕਚਰਲ ਡਰਾਇੰਗ

ਸਮਾਂ: 4 ਘੰਟੇ ਬਿਊਗੀ: 9● ਅੰਕ

ਸੀ.ਸੀ.ਈ.: 1● ਅੰਕ

ਕੁੱਲ: 1●● ਅੰਕ

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ–ਰੇਖਾ ਭਾਗ - 1

(ਜਿਊਮੈਟਰੀਕਲ ਅਤੇ ਵਿੱਥ ਸੋਝੀ ਡਰਾਇੰਗ) ਜਿਊਮੈਟਰੀਕਲ ਡਰਾਇੰਗ: ਕੁੱਲ ਅੰਕ: 45

ਅੰਕ: 16

ਪੇਪਰ ਸੈੱਟਰ ਇਸ ਭਾਗ ਵਿੱਚੋਂ ਚਾਰ ਪ੍ਰਸ਼ਨ ਸੈੱਟ ਕਰੇਗਾ ਜੋ 8-8 ਅੰਕਾਂ ਦੇ ਹੋਣਗੇ, ਜਿਹਨਾਂ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹੋਣਗੇ। ਇਸ ਭਾਗ ਵਿੱਚ ਤਿਕੋਣਾਂ, ਵਰਗ, ਆਇਤ, ਪਤੰਗਰੂਪੀ ਚਤੁਰਭੁਜ, ਸਮਾਨਾਂਤਰ ਚਤੁਰਭੁਜ, ਚੱਕਰਾਂ ਸੰਬੰਧੀ ਪ੍ਰਸ਼ਨ, ਬਹੁਭੁਜਾਂ ਅਤੇ ਤਿਕੋਣ, ਵਰਗ, ਚੱਕਰ ਤੇ ਅੰਤਰੀ ਅਤੇ ਬਾਹਰੀ ਪ੍ਰਸ਼ਨਾਂ ਸਬੰਧੀ ਪ੍ਰਸ਼ਨ ਅਤੇ ਚੱਕਰੀ ਵਿੱਧੀ ਦੁਆਰਾ ਅੰਡਕਾਰ ਬਣਾਉਣ ਦੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।

ਠੋਸ ਅਤੇ ਨਿੱਗਰ ਜਿਉਮੈਟਰੀ:

ਅੰਕ: 9

ਇਸ ਭਾਗ ਵਿੱਚ ਇੱਕ ਹੀ ਪ੍ਰਸ਼ਨ ਸੈੱਟ ਕੀਤਾ ਜਾਵੇਗਾ ਉਹ ਹੀ ਕਰਨਾ ਜ਼ਰੂਰੀ ਹੋਵੇਗਾ। ਇਸ ਵਿੱਚ ਠੋਸ ਜਿਵੇਂ ਘਣ ਖੇਤਰ, ਮੀਨਾਰ, ਘਣ, ਬੇਲਣ, ਸ਼ੰਕੂ, ਗੋਲਾ ਅਤੇ ਚੌ ਮੁੱਖਾ ਦੇ ਤਲ ਅਤੇ ਮੱਥਾ ਬਣਾਉਣ ਦੇ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨੇ ਹੋਣਗੇ। ਠੋਸਾਂ ਦੇ ਕਾਟ ਸੰਬੰਧੀ ਪ੍ਰਸ਼ਨ ਵੀ ਆਉਣਗੇ। ਇਹ ਪ੍ਰਸ਼ਨ 9 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ।

ਵਿੱਥ ਸੋਝੀ ਡਰਾਇੰਗ: ਅੰਕ: 2€

ਇਸ ਭਾਗ ਵਿੱਚ ਇੱਕ ਹੀ ਪ੍ਰਸ਼ਨ ਸੈੱਟ ਕੀਤਾ ਜਾਵੇਗਾ ਜੋ ਕਰਨਾ ਜ਼ਰੂਰੀ ਹੋਵੇਗਾ। ਇਸਦੇ ਵੀਹ ਅੰਕ ਹੋਣਗੇ। ਇਸ ਵਿੱਚ ਘਣ, ਚੌਂਕੀ, ਪਟੜਾ, ਡਰਾਇੰਗ ਬੋਰਡ ਦੇ ਵਿੱਥ ਸੋਝੀ ਚਿੱਤਰ ਬਣਾਉਣੇ ਹੋਣਗੇ, ਜਿਹਨਾਂ ਦੀ ਮਿਣਤੀ ਪੇਪਰ ਸੈੱਟਰ ਵੱਲੋਂ ਦਿੱਤੀ ਜਾਵੇਗੀ।

ਅੰਕਾਂ ਦੀ ਵੰਡ:-

ਵਿੱਥ ਸੋਝੀ ਦੀ ਬਣਾਵਟ = ●9 ਅੰਕ ਠੀਕ ਮਿਣਤੀਆਂ ਅਤੇ ਠੀਕ ਡਰਾਇੰਗ = ●5 ਅੰਕ ਸਕੇਲ ਡਰਾਇੰਗ = ●3 ਅੰਕ ਹਲਕੀਆਂ ਤੇ ਗੂੜ੍ਹੀਆਂ ਰੇਖਾਵਾਂ = ●3 ਅੰਕ ਕੱਲ = 2● ਅੰਕ

ਭਾਗ – 2

ਕੁੱਲ ਅੰਕ: 45

ਆਰਕੀਟੈਕਚਰਲ ਡਰਾਇੰਗ:

ਇਸ ਭਾਗ ਵਿੱਚ ਪੇਪਰ ਸੈੱਟਰ ਵੱਲੋਂ ਦਿੱਤੇ ਗਏ ਦੋ ਮੈਜ਼ਿਲੇ ਮਕਾਨ ਦਾ ਮੱਥਾ, ਪਾਸਾ ਅਤੇ ਤਲ ਬਣਾਇਆ ਜਾਵੇਗਾ।

ਅੰਕਾਂ ਦੀ ਵੰਡ:-

ਮੱਥਾ (ELEVATION) = 13 ਐਕ

ਪਾਸਾ (SIDE) = 13 ਅੰਕ

ਤਲ (PLAN) = 13 ਅੰਕ

ਲਿਖਾਈ ਅਤੇ ਪੈਮਾਨਾ (W&S) = ●6 ਅੰਕ

ਕੁੱਲ = 45 ਅੰਕ

(ਪਾਠ-ਕ੍ਮ) ਜਿਉਮੈਟਰੀਕਲ, ਵਿੱਥ ਸੋਝੀ ਅਤੇ ਆਰਕੀਟੈਕਚਰਲ ਡਰਾਇੰਗ

ਅੰਕ:1●●

<u>ਅੰਕਾਂ ਦੀ ਵੰਡ</u>	
ਬਿਊਰੀ	ਅੰਕ:9●
ਪਾਸ ਅੰਕ	ਅੰਕ:3●
ਸੀ.ਸੀ.ਈ.	ਅੰਕ:1●
ਪਾਸ ਅੰਕ	ਅੰਕ:●3
ਕੁੱਲ ਅੰਕ	ਅੰਕ:1●●
ਪਾਸ ਅੰਕ	ਅੰਕ:33

ਭਾਗ-1 Geometrical and Perspective Drawing ਜਿਉਮੈਟਰੀਕਲ ਅਤੇ ਵਿੱਥ ਸੋਝੀ ਡਰਾਇੰਗ

ਕੁੱਲ ਅੰਕ:45

1. ਜਿਊਮੈਟਰੀਕਲ ਡਰਾਇੰਗ

ਅੰਕ:16

ਨੋਟ:- ਇਸ ਭਾਗ ਵਿੱਚ ਚਾਰ ਪ੍ਰਸ਼ਨ ਸੈੱਟ ਕੀਤੇ ਜਾਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨੇ ਲਾਜ਼ਮੀ ਹੋਣਗੇ।

- (i) ਤਿਕੋਣਾਂ ਦੀ ਬਨਾਵਟ ਸਬੰਧੀ ਪ੍ਰਸ਼ਨ ਜਿਸ ਵਿੱਚ ਆਧਾਰ, ਉਚਾਈ, ਆਧਾਰ ਕੋਣ ਅਤੇ ਸ਼ੀਰਸ਼ ਕੋਣ ਦਿੱਤੇ ਹੋਣ।
- (ii) ਵਰਗ, ਆਇਤ, ਪਤੰਗ ਰੂਪੀ ਚਤੁਰਭੂਜ ਅਤੇ ਸਮਾਨੰਤਰ ਚਤੁਰਭੂਜ ਸਬੰਧੀ ਪ੍ਰਸ਼ਨ
- (iii) ਚੱਕਰ ਦੀਆਂ ਛੋਹਤ ਰੇਖਾਵਾਂ ਅਤੇ ਚੱਕਰ ਦੇ ਅੰਦਰ ਅਤੇ ਬਾਹਰ ਚੱਕਰ ਖਿੱਚਣ ਸਬੰਧੀ ਪ੍ਰਸ਼ਨ।
- (iv) ਅੰਤਰੀ ਅਤੇ ਬਾਹਰੀ ਆਕਾਰਾਂ ਸਬੰਧੀ ਪ੍ਰਸ਼ਨ। ਜਿਵੇਂ ਤਿਕੋਣ, ਵਰਗ ਸਮਾਨਾਂਤਰ ਚਤੁਰਭੁਜ, ਸਮ ਪੰਜਭੁਜ, ਸਮ ਛੇਭੁਜ, ਸਮ ਅੱਠਭੁਜ ਦੇ ਅੰਦਰ ਅਤੇ ਬਾਹਰ ਸਮਰੂਪੀ ਆਕਾਰ ਬਣਾਉਣੇ।
- (v) ਚੱਕਰੀ ਵਿਧੀ ਦੁਆਰਾ ਅੰਡਕਾਰ (Ellipse) ਬਣਾਉਣੇ। ਜਿਹਨਾਂ ਦਾ ਵੱਡਾ ਅਤੇ ਛੋਟਾ ਧੁਰਾ ਦਿੱਤਾ ਗਿਆ ਹੈ।

2. ਠੋਸ ਅਤੇ ਨਿੱਗਰ ਜਿਊਮੈਟਰੀ

ਅੰਕ:9

ਠੋਸ ਜਿਵੇਂ ਘੱਣ ਖੇਤਰ, ਮੀਨਾਰ, ਘਣ, ਬੇਲਣ, ਸ਼ੰਕੂ, ਗੋਲਾ ਅਤੇ ਚੌਮੁੱਖਾ ਦੇ ਤਲ ਅਤੇ ਮੱਥਾ ਬਣਾਉਂਣੇ। ਜਦ ਕਿ ਇਹ XY ਰੇਖਾ ਦੇ ਸਮਾਨਾਂਤਰ ਅਤੇ XY ਰੇਖਾ ਨਾਲ ਦਿੱਤਾ ਹੋਇਆ ਕੋਣ ਬਣਾਉਂਦੇ ਹੋਣ। ਲੇਟਵੀਂ ਧਰਾਤਲ ਅਤੇ ਖੜੀ ਧਰਾਤਲ ਵੱਲੋਂ ਠੋਸ ਦੇ ਕੱਟਵੇਂ ਰੂਪ ਦੇ ਤਲ ਅਤੇ ਮੱਥਾ ਬਣਾਉਂਣੇ। ਠੋਸ ਜਿਹਨਾਂ ਦੇ ਪ੍ਰਸ਼ਨ ਪ੍ਰੀਖਿਆ ਵਿੱਚ ਆਉਂਣਗੇ ਉਹ ਤਿਕੋਣ, ਵਰਗ, ਬਹੁਭੂਜਾ ਅਤੇ ਚੱਕਰ ਹਨ।

3. ਵਿੱਥ ਸੋਝੀ ਡਰਾਇੰਗ (Perspective Drawing) (ਜ਼ਰੂਰੀ)

ਅੰਕ:2●

ਕਿਸੇ ਘਣ, ਚੌਂਕੀ ਅਤੇ ਪਟੜੇ ਅਤੇ ਡਰਾਇੰਗ ਬੋਰਡ ਦਾ ਵਿੱਥ ਸੋਝੀ ਚਿੱਤਰ ਬਣਾਉਂਣਾ ਜਿਸ ਦੀਆਂ ਮਿਣਤੀਆਂ ਲੰਬਾਈ, ਚੌੜਾਈ ਅਤੇ ਉਚਾਈ ਦਿੱਤੀਆਂ ਹੋਈਆਂ ਹੋਣ। ਕਾਗਜ ਦਾ ਸਾਈਜ਼:- 1/4 ਭਾਗ (35ਸੈਂ: ਮੀ:×25ਸੈਂ: ਮੀ:)

ਭਾਗ–II Architectural Drawing (ਆਰਕੀਟੈਕਚਰਲ ਡਰਾਇੰਗ) (ਜ਼ਰੂਰੀ)

ਕੁੱਲ ਅੰਕ:45

ਦਿੱਤੇ ਹੋਏ ਦੋ ਮੰਜ਼ਲੇ ਮਕਾਨ ਦਾ ਮੱਥਾ, ਪਾਸਾ ਅਤੇ ਤਲ ਬਣਾਉਂਣਾ। ਮਕਾਨ ਵਿੱਚ ਰਸੋਈ, ਗੁਸਲਖਾਨਾ ਸ਼ਾਮਿਲ ਹੋਵੇ।

ਕਾਗਜ ਦਾ ਸਾਈਜ:− 1/2 ਭਾਗ (5●ਸੈਂ: ਮੀ:×35ਸੈਂ: ਮੀ:)

ਨੋਟ:- ਇਹ ਪੇਪਰ ਪ੍ਰੀਖਿਆ ਭਵਨ ਵਿੱਚ ਆਮ ਪੇਪਰਾਂ ਵਾਂਗ ਸੁਪਰਡੈਟ ਵੱਲੋਂ ਲਿਆ ਜਾਵੇਗਾ।

CLASS-XII 36. COMMERCIAL ART

ਕਮਰਸ਼ੀਅਲ ਆਰਟ

ਸਮਾਂ:8 ਘੰਟੇ ਪ੍ਯੋਗੀ: 9● ਅੰਕ

ਸੀ.ਸੀ.ਈ.: 1● ਅੰਕ

ਕੁੱਲ: 1●● ਅੰਕ

ਨੋਟ: ਇਹ ਪੇਪਰ ਪੂਰਨ ਪ੍ਯੋਗੀ ਹੈ ਅਤੇ ਪ੍ਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਰਾਹੀਂ ਬੋਰਡ ਵੱਲੋਂ ਨਿਯਤ ਡੇਟਸ਼ੀਟ ਅਨੁਸਾਰ ਲਿਆ ਜਾਵੇਗਾ।

	ਸਮਾਂ	ਸ਼ੈਸ਼ਨ
ਪਹਿਲਾ ਪੇਪਰ	4 ਘੰਟੇ	ਸਵੇਰ
ਦੂਜਾ ਪੇਪਰ	4 ਘੰਟੇ	ਸ਼ਾਮ

ਪ੍ਰਸ਼ਨ-ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

- 1. ਇਹ ਪੇਪਰ ਪ੍ਯੋਗੀ ਡੇਟ ਸ਼ੀਟ ਅਨੁਸਾਰ ਪ੍ਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਵੱਲੋਂ ਲਿਆ ਜਾਵੇਗਾ। ਪਹਿਲੇ ਸਵੇਰ ਦੇ ਸੈਸ਼ਨ ਵਿੱਚ ਲੇ-ਆਊਟ ਡਿਜ਼ਾਇਨਿੰਗ ਸਬੰਧੀ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਇਹ ਪੇਪਰ ਚਾਰ ਘੰਟੇ ਦਾ ਹੋਵੇਗਾ। ਇਸਦੇ ਕੁੱਲ 38 ਅੰਕ ਹੋਣਗੇ। ਇਸ ਵਿੱਚ ਤਿੰਨ ਪ੍ਰਸ਼ਨ ਸੈੱਟ ਕਰਨੇ ਹੋਣਗੇ। ਵਿਦਿਆਰਥੀ ਵੱਲੋਂ ਕੋਈ ਇੱਕ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨਾ ਹੋਵੇਗਾ।
- 2. ਦੂਜੇ ਸ਼ਾਮ ਦੇ ਸੈਸ਼ਨ ਵਿੱਚ ਪੋਸਟਰ ਡਿਜਾਇਨਿੰਗ ਦਾ ਪੇਪਰ ਹੋਵੇਗਾ। ਇਹ ਪੇਪਰ ਵੀ ਉਪਰੋਕਤ ਅਨੁਸਾਰ 38 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਇਸ ਦਾ ਸਮਾਂ ਚਾਰ ਘੰਟੇ ਹੋਵੇਗਾ। ਇਸ ਵਿੱਚ ਕੋਈ ਦੋ ਪ੍ਰਸ਼ਨ ਸੈੱਟ ਕੀਤੇ ਜਾਣਗੇ। ਪ੍ਰੀਖਿਆਰਥੀ ਵੱਲੋਂ ਕੋਈ ਇੱਕ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨਾ ਹੋਵੇਗਾ।
- 3. ਵਿਚਕਾਰ ਇੱਕ ਘੰਟੇ ਦੇ ਸਮੇਂ ਵਿੱਚ ਪ੍ਯੋਗੀ ਪ੍ਰੀਖਿਅਕ, ਪ੍ਰੀਖਿਆਰਥੀਆਂ ਦੇ ਸੈਸ਼ਨਲ ਕੰਮ ਦਾ ਮੁਲਾਂਕਣ ਕਰੇਗਾ।ਇਸਦੇ 14 ਅੰਕ ਹੋਣਗੇ।
- 4. ਪ੍ਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਸਾਰੇ ਪੇਪਰਾਂ ਦਾ ਮੁਲਾਂਕਣ ਕਰਕੇ ਨੰਬਰ ਸੂਚੀਆਂ ਸਬੰਧਤ ਅਧਿਕਾਰੀ ਨੂੰ ਮੋਹਰ ਬੰਦ ਲਿਫਾਫੇ ਵਿੱਚ ਭੇਜੇਗਾ।
- 5. ਡਰਾਇੰਗ ਸ਼ੀਟਾਂ ਅਤੇ ਪੇਟਿੰਗ ਦਾ ਹੋਰ ਸਾਰਾ ਸਮਾਨ ਪ੍ਰੀਖਿਆਰਥੀ ਖੁਦ ਨਾਲ ਲੈ ਕੇ ਆਵੇਗਾ।

ਪਾਠ–ਕ੍ਰਮ

ਭਾਗ−1

ਲੇ-ਆਉਟ ਡਿਜ਼ਾਈਨਿੰਗ

ਅੰਕ: 38

- 1. ਕਾਲੇ ਅਤੇ ਚਿੱਟੇ ਰੰਗਾਂ ਵਿੱਚ ਲੈਟਰ ਪੈਡ ਤਿਆਰ ਕਰਨਾ।
- 2. ਮੈਗਜ਼ੀਨ ਕਵਰ ਜਾਂ ਬੁੱਕ ਕਵਰ ਰੰਗਾਂ ਦੁਆਰਾ ਤਿਆਰ ਕਰਨੇ।
- ਸਾਧਾਰਨ ਮੋਨੋ ਗਾਮ ਬਣਾਉਂਣੇ।

ਪੇਪਰ ਦਾ ਮਾਪ:- ਪੂਰੇ ਪੇਪਰ ਦਾ 1/4 ਭਾਗ (35 ਸੈਂ: ਮੀ:×25ਸੈਂ: ਮੀ:)

ਭਾਗ-II

ਪੋਸਟਰ ਡਿਜਾਇਨਿੰਗ ਅੰਕ: 38

- ਦਿੱਤੇ ਹੋਏ ਵਿਸ਼ੇ ਤੇ ਲਿਖਾਈ ਕਰਕੇ ਪੋਸਟਰ ਤਿਆਰ ਕਰਨੇ ਅਤੇ ਸਬੰਧਤ ਰੰਗਾਂ ਨਾਲ ਸਜਾਉਣਾ।
- ਛੋਟੇ ਬੱਚਿਆਂ ਦੀਆਂ ਪੁਸਤਕਾਂ ਦੇ ਕਵਰ ਤਿਆਰ ਕਰਨੇ। ਇਹ ਕਵਰ ਕਾਲੇ, ਚਿੱਟੇ ਜਾਂ ਰੰਗਦਾਰ ਤਿਆਰ ਕੀਤੇ ਜਾ ਸਕਦੇ ਹਨ।

ਪੇਪਰ ਦਾ ਮਾਪ:- ਪੂਰੇ ਪੇਪਰ ਦਾ 1/4 ਭਾਗ (35ਸੈਂ: ਮੀ:×25ਸੈਂ: ਮੀ:)

ਭਾਗ–III

ਅੰਕ∙ 1⊿

ਸੈਸ਼ਨਲਵਰਕ:– ਸਾਰੇ ਸਾਲ ਵਿੱਚ ਤਿਆਰ ਕੀਤੀਆਂ ਘੱਟੋ–ਘੱਟ ਵੀਹ ਆਈਟਮਾਂ ਜੋ ਕਿ ਪ੍ਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਚੈਕ ਕਰੇਗਾ ਅਤੇ ਅੰਕ ਲਾਵੇਗਾ।

ਨੋਟ:- ਡਰਾਇੰਗ ਸ਼ੀਟਾਂ ਅਤੇ ਪੇਟਿੰਗ ਦਾ ਹੋਰ ਸਾਰਾ ਸਮਾਨ ਪ੍ਰੀਖਿਆਰੀ ਖੁਦ ਲੈ ਕੇ ਆਵੇਗਾ।

CLASS-XII 37. DRAWING AND PAINTING ਡਰਾਇੰਗ ਅਤੇ ਚਿੱਤਰਕਲਾ

ਸਮਾਂ:8 ਘੰਟੇ ਪ੍ਰਯੋਗੀ: 9● ਅੰਕ

ਸੀ.ਸੀ.ਈ.: 1● ਅੰਕ

ਕੁੱਲ: 1●● ਅੰਕ

ਨੋਟ: ਇਹ ਪੇਪਰ ਪੂਰਨ ਪ੍ਯੋਗੀ ਹੈ ਅਤੇ ਪ੍ਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਰਾਹੀਂ ਬੋਰਡ ਵੱਲੋਂ ਨਿਯਤ ਡੇਟਸ਼ੀਟ ਅਨੁਸਾਰ ਲਿਆ ਜਾਵੇਗਾ।

	ਸਮਾਂ	ਸ਼ੈਸ਼ਨ
ਪਹਿਲਾ ਪੇਪਰ	4 ਘੰਟੇ	ਸਵੇਰ
ਦੂਜਾ ਪੇਪਰ	4 ਘੰਟੇ	ਸ਼ਾਮ

STRUCTURE OF QUESTION PAPER

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

- 1. ਇਹ ਪੇਪਰ ਪ੍ਰਯੋਗੀ ਡੇਟਸ਼ੀਟ ਅਨੁਸਾਰ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਵੱਲੋਂ ਲਿਆ ਜਾਵੇਗਾ। ਪਹਿਲਾਂ ਸਵੇਰ ਦੇ ਸੈਸ਼ਨ ਵਿੱਚ ਸਕੈੱਚਿੰਗ, ਫੁੱਲਾਂ ਦੀ ਚਿੱਤਰਕਾਰੀ , ਡਿਜ਼ਾਈਨ ਅਤੇ ਕੁਦਰਤੀ ਦ੍ਰਿਸ਼ ਦਾ ਪੇਪਰ ਲਿਆ ਜਾਵੇਗਾ। ਇਸਦਾ ਸਮਾਂ ਚਾਰ ਘੰਟੇ ਹੋਵੇਗਾ। ਕੋਈ ਇੱਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਹੋਵੇਗਾ । ਇਸਦੇ 38 ਅੰਕ ਹੋਣਗੇ।
- 2. ਸ਼ਾਮ ਦੇ ਸੈਸ਼ਨ ਵਿੱਚ ਮਾਡਲ ਡਰਾਇੰਗ (Still Life)ਦਾ ਪੇਪਰ ਹੋਵੇਗਾ। ਮਾਡਲ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਵੱਲੋਂ ਸੈੱਟ ਕੀਤਾ ਜਾਵੇਗਾ। ਮਾਡਲ ਦੇ ਪਿੱਛੇ ਡਰਾਪਰੀ(ਪਰਦਾ) ਸੈੱਟ ਕੀਤੀ ਜਾਵੇਗੀ। ਮਾਡਲ ਦਾ ਸਮਾਨ ਕੇਂਦਰ ਕੰਟਰੋਲਰ ਵੱਲੋਂ ਉਪਲੱਬਧ ਕਰਵਾਇਆ ਜਾਵੇਗਾ। ਇਸਦਾ ਸਮਾਂ ਚਾਰ ਘੰਟੇ ਹੋਵੇਗਾ। ਇਸਦੇ 38 ਅੰਕ ਹੋਣਗੇ।
- 3. ਵਿਚਕਾਰ ਇੱਕ ਘੰਟੇ ਦੇ ਸਮੇਂ ਵਿੱਚ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਅਕ, ਪ੍ਰੀਖਿਆਰਥੀ ਦੇ ਸੈਸ਼ਨਲ ਕੰਮ ਦਾ ਮੁਲਾਂਕਣ ਕਰੇਗਾ। ਇਸਦੇ 14 ਅੰਕ ਹੋਣਗੇ। ਪ੍ਰੀਖਿਅਕ ਕੀਤੇ ਕੰਮ ਅਨੁਸਾਰ ਅੰਕ ਦੇਵੇਗਾ।
- 4. ਸਾਰੇ ਪੇਪਰ ਦਾ ਮੁਲਾਂਕਣ ਕਰਕੇ ਪ੍ਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਨੰਬਰ ਸੂਚੀਆਂ ਸਬੰਧਤ ਅਧਿਕਾਰੀ ਨੂੰ ਆਪਣੇ ਹਸਤਾਖਰ ਕਰਕੇ ਭੇਜੇਗਾ।

ਨੋਟ:- ਡਰਾਇੰਗ ਸ਼ੀਟਾਂ ਅਤੇ ਪੇਟਿੰਗ ਦਾ ਹੋਰ ਸਾਰਾ ਸਮਾਨ ਪ੍ਰੀਖਿਆਰਥੀ ਖੁਦ ਲੈ ਕੇ ਆਵੇਗਾ।

ਪਾਠ-ਕ੍ਮ

ਭਾਗ-1

(ਸਕੈੱਚਿੰਗ ਅਤੇ ਬਨਾਵਟ)

ਅੰਕ: 38

ਮਨੁੱਖੀ ਸ਼ਰੀਰ, ਜਾਨਵਰ, ਪਸ਼ੂ ਅਤੇ ਪੰਛੀਆਂ ਦੇ ਕੁਦਰਤੀ ਦ੍ਰਿਸ਼ ਅਤੇ ਚਿੱਤਰ ਬਣਾਉਣੇ।

ਜਾਂ

ਇੱਕ ਫੁੱਲਦਾਨ ਵਿੱਚ ਫੁੱਲ ਇੱਕਠੇ ਕਰਕੇ ਇਹਨਾਂ ਦੀ ਚਿੱਤਰਕਾਰੀ ਕਰਨੀ।

ਜਾਂ

ਕੋਈ ਕੁਦਰਤੀ ਦ੍ਰਿਸ਼ ਬਣਾਉਣਾ ਜਿਸ ਵਿੱਚ ਦਰਿਆ ਝੀਲ, ਘਰ, ਚੌਂਪੜੀ, ਦਰਖ਼ਤ, ਪਹਾੜ ਅਤੇ ਅਸਮਾਨ ਦਰਸਾਏ ਜਾਣ।

ਜਾਂ

ਕੋਈ ਆਲ ਓਵਰ ਪੈਂਟਰਨ, ਸਾੜੀ ਬਾਡਰ, ਪਰਦਾ ਅਤੇ ਸਿਰਹਾਣੇ ਦਾ ਨਮੂਨਾ ਬਣਾਉਣਾ। ਪੇਪਰ ਦਾ ਮਾਪ :− 1/4 ਭਾਗ (35 ਸੈਂ:ਮੀ: ×25 ਸੈਂ:ਮੀ:)

ਭਾਗ-II

ਮਾਡਲ ਡਰਾਇੰਗ (Still Life)

ਅੰਕ: 38

ਕਿਸੇ ਚਾਰ ਵਸਤੂਆਂ ਦਾ ਚਿੱਤਰਨ ਕਰਨਾ ਅਤੇ ਇਨ੍ਹਾਂ ਵਸਤੂਆਂ ਦੇ ਪਿੱਛੇ ਡਰਾਪਰੀ (ਪਰਦਾ) ਹੋਵੇ। ਪੇਪਰ ਦਾ ਮਾਪ :− 1/2 ਭਾਗ (35 ਸੈਂ:ਮੀ: ×55 ਸੈਂ:ਮੀ:)

·····

ਮਾਧਿਅਮ :ਪੇਸਟਲ, ਪਾਣੀ ਜਾਂ ਤੇਲ ਵਾਲੇ ਰੰਗ

ਭਾਗ –III

ਅੰਕ: 14

ਸੈਸ਼ਨਲ ਵਰਕ:− ਸਾਰੇ ਸਾਲ ਵਿੱਚ ਤਿਆਰ ਕੀਤੀਆਂ ਘੱਟੋ−ਘੱਟ ਵੀਹ ਆਈਟਮਾਂ ਜੋ ਕਿ ਪ੍ਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਚੈੱਕ ਕਰੇਗਾ ਅਤੇ ਅੰਕ ਲਾਵੇਗਾ।

ਨੋਟ:- ਡਰਾਇੰਗ ਸ਼ੀਟਾਂ ਅਤੇ ਪੇਟਿੰਗ ਦਾ ਹੋਰ ਸਾਰਾ ਸਮਾਨ ਪ੍ਰੀਖਿਆਰਥੀ ਖੁਦ ਲੈ ਕੇ ਆਵੇਗਾ।

CLASS-XII 38. HISTORY AND APPRECIATION OF ART (ਕਲਾ ਦਾ ਇਤਿਹਾਸ ਅਤੇ ਪ੍ਸੰਸਾ)

(ਖ਼ੜ ਦੇ ਵਿਚਿੰਦ ਸਾਲਿਤ ਪ੍ਰਸਮਾਂ) ਲਿਖਤੀ: 9● ਅੰਕ

ਸੀ.ਸੀ.ਈ.: 1● ਅੰਕ

ਕੁੱਲ: 1●● ਅੰਕ

STRUCTURE OF QUESTION PAPER ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

- 1. ਇਹ ਪੇਪਰ ਪ੍ਰੀਖਿਆ ਭਵਨ ਵਿੱਚ ਬਾਕੀ ਥਿਊਰੀ ਪੇਪਰਾਂ ਵਾਂਗ ਕੇਂਦਰ ਸੁਪਰਡੰਟ ਵੱਲੋਂ ਲਿਆ ਜਾਵੇਗਾ ।
- 2. ਇਸ ਪੇਪਰ ਦੇ ਦੋ ਭਾਗ ਹੋਣਗੇ। ਪਹਿਲੇ ਭਾਗ ਵਿੱਚ ਪੰਜ ਪ੍ਰਸ਼ਨ ਅਤੇ ਦੂਜੇ ਭਾਗ ਵਿੱਚ ਵੀ ਪੰਜ ਪ੍ਰਸ਼ਨ ਪਾਏ ਜਾਣਗੇ। ਪਹਿਲੇ ਭਾਗ ਵਿੱਚੋਂ ਕੋਈ ਤਿੰਨ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨੇ ਹਨ ਅਤੇ ਦੂਜੇ ਭਾਗ ਵਿੱਚੋਂ ਕੋਈ ਦੋ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨੇ ਹਨ।
- 3. ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ 18 ਅੰਕ ਹੋਣਗੇ।

ਸਮਾਂ: 3 ਘੰਟੇ

- 4. ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਬੋਰਡ ਵੱਲੋਂ ਨਿਰਧਾਰਤ ਕੀਤੇ ਗਏ ਪਾਠਕ੍ਰਮ ਵਿੱਚੋਂ ਹੀ ਹੋਣਗੇ।
- 5. ਪੇਪਰ ਸੈਂਟਰ ਵੱਲੋਂ ਪੇਪਰ ਦਾ ਮੁਲਾਂਕਣ ਕਰਨ ਲਈ ਮੁੱਖ ਅਤੇ ਉਪ ਪ੍ਰੀਖਿਅਕਾਂ ਨੂੰ ਹਦਾਇਤਾਂ ਭੇਜੀਆਂ ਜਾਣਗੀਆਂ

ਪਾਠ-ਕ੍ਰਮ

ਭਾਗ-I ਅੰਕ - 54

- 1. ਪੱਛਮੀ ਭਾਰਤੀ ਲਘੂ ਚਿੱਤਰਕਾਰੀ
- 2 . ਪੱਛਮੀ ਭਾਰਤੀ ਮਿੰਨੀ ਚਿੱਤਰਾਂ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਦੱਸੋ?
- 3. ਪਾਲ ਸਕੂਲ
- 4 . ਰਾਜਸਥਾਨੀ ਚਿੱਤਰਕਲਾ ਦਾ ਸਕੂਲ
- 5. ਪਹਾੜੀ ਚਿੱਤਰਕਾਰੀ ਸਕੂਲ
- 6. ਅਮਰਾਵਤੀ, ਪਲਵਾ, ਚੋਲਾ (ਕਾਂਸੀ), ਚਾਲੁਕਿਅਨ, ਅਲੋਰਾ, ਐਲੀਫੈਂਟਾ

ਭਾਗ–II ਅੰਕ – 36

- 1 ਕਲਾ ਅਤੇ ਸੁੰਦਰਤਾ
- 2 ਭਾਰਤੀ ਚਿੱਤਰਕਲਾ ਦੇ ਛੇ ਅੰਗ
- 3. ਇੱਕ ਚੰਗੇ ਕਲਾਕਾਰ ਦੇ ਗੁਣ ਜਾਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ
- 4. ਕਲਾ ਦੀ ਸਮੱਗਰੀ ਅਤੇ ਤਕਨੀਕ
- ਸਮਾਜ ਅਤੇ ਕਲਾ
- 6. ਕਲਾ ਦੇ ਕੰਮ ਦੀ ਪ੍ਰਸ਼ੰਸਾ
- 7. ਭਾਰਤੀ ਕਲਾ ਦੀ ਕਿਸੇ ਮੁੱਖ ਕਲਾਕ੍ਰਿਤੀ ਦੀ ਪ੍ਰਸ਼ੰਸਾ:-ਸਾਰਨਾਥ ਬੁੱਧ, ਅਸ਼ੋਕ ਸਤੰਭ ਤੇ ਪਸ਼ੂਆਂ ਦੇ ਨਮੂਨੇ,ਨਟਰਾਜ ਕਾਂਸੀ ਮੂਰਤੀ (ਚੋਲਾ) ਬੁੱਤਕਾਰੀ, ਬੋਧੀ ਸਤਵਾ, ਪਦਮ ਪਾਣੀ (ਅਜੰਤਾ), ਮਾਂ ਤੇ ਬੱਚਾ (ਅਜੰਤਾ), ਸੋਹਣੀ ਮਹੀਵਾਲ (ਸੋਭਾ ਸਿੰਘ), ਆਫਟਰ ਬਾਥ (ਠਾਕਰ ਸਿੰਘ)
- ਨੋਟ: ਇਹ ਪੇਪਰ ਪ੍ਰੀਖਿਆ ਭਵਨ ਵਿੱਚ ਬਾਕੀ ਥਿਊਰੀ ਪੇਪਰਾਂ ਵਾਂਗ ਕੇਂਦਰ ਸੁਪਰਡੰਟ ਵੱਲੋਂ ਲਿਆ ਜਾਵੇਗਾ। ਚਿੱਤਰਕਲਾ ਅਤੇ ਬੁੱਤਤਰਾਸ਼ੀ ਸਮੇਤ ਭਾਰਤੀ ਕਲਾ ਦਾ ਇਤਿਹਾਸ।

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39. ਸਰੀਰਿਕ ਸਿੱਖਿਆ ਅਤੇ ਖੇਡਾਂ

ਸਮਾਂ : 3 ਘੰਟੇ ਬਿਊਰੀ ਭਾਗ−5● ਅੰਕ ਪ੍ਰਯੋਗੀ ਭਾਗ − 4● ਅੰਕ

ੰ ਸੀ.ਸੀ.ਈ − 1**●** ਅੰਕ

ਕੁੱਲ – 1●● ਅੰਕ

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

- 1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ 23 ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਅਤੇ ਇਹ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹਨ।
- ਪ੍ਰਸ਼ਨ ਨੰਬਰ 1 ਤੋਂ 1● ਤੱਕ ਇੱਕ-ਇੱਕ ਅੰਕ ਵਾਲ਼ੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ, ਇਹ ਓਬਜੈਕਟਿਵ ਟਾਈਪ ਵੀ ਹੋ ਸਕਦੇ ਹਨ ਅਤੇ ਇਹਨਾਂ ਦਾ ਉੱਤਰ 1● ਸ਼ਬਦਾਂ ਤੱਕ ਦਾ ਹੋ ਸਕਦਾ ਹੈ।
 1●×1=10 ਅੰਕ
- 3. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 11 ਤੋਂ 15 ਤੱਕ ਦੋ− ਦੋ ਅੰਕਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ ਲਗਪਗ 2● ਸ਼ਬਦਾਂ ਤੱਕ ਹੋ ਸਕਦਾ ਹੈ। 5×2=10 ਅੰਕ
- 4. ਪ੍ਸ਼ਨ ਨੰਬਰ 16 ਤੋਂ 2● ਤੱਕ ਤਿੰਨ-ਤਿੰਨ ਅੰਕਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਜਿਨ੍ਹਾਂ ਦਾ ਉੱਤਰ ਲਗਪਗ 3● ਤੋਂ 5● ਸ਼ਬਦਾਂ ਤੱਕ ਹੋ ਸਕਦਾ ਹੈ। 5×3=15 ਅੰਕ
- 5. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 21 ਤੋਂ 23 ਪੰਜ–ਪੰਜ ਅੰਕਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ, ਇਹਨਾਂ ਵਿੱਚ ਕੁੱਲ 5 ਪ੍ਰਸ਼ਨ ਦਿੱਤੇ ਜਾਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿੱਚੋਂ ਕੁੱਲ 3 ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹਨ। **3×5=15 ਅੰਕ**

ਪਾਠਕ੍ਮ (ਲਿਖਤੀ ਭਾਗ)

ਪਾਠ ਪਹਿਲਾ – ਸਰੀਰਿਕ ਯੋਗਤਾ

- ਉ) ਸਰੀਰਿਕ ਯੋਗਤਾ ਦਾ ਅਰਥ ਅਤੇ ਮਹੱਤਤਾ
- ਅ) ਸਰੀਰਿਕ ਯੋਗਤਾ ਦੇ ਘਟਕ (ਅੰਗ)
- ੲ) ਸਰੀਰਿਕ ਯੋਗਤਾ ਨੂੰ ਪ੍ਰਭਾਵਤ ਕਰਨ ਵਾਲੇ ਕਾਰਕ
- ਸ) ਸਗੈਰਿਕ ਯੋਗਤਾ ਦੇ ਵਿਕਾਸ ਦੇ ਸਿਧਾਂਤ

ਪਾਠ ਦੂਜਾ- ਸਿਖਲਾਈ ਦੀਆਂ ਵਿਧੀਆਂ ਅਤੇ ਹੋਰ ਸਿਧਾਂਤ

- ੳ) ਸਰੀਰ ਨੂੰ ਗਰਮਾਉਣਾ, ਠੰਡਾ ਕਰਨਾ ਅਤੇ ਇਸ ਦੇ ਸਿਧਾਂਤ
- ਅ) ਅਨੁਕੁਲਨ
- ੲ) ਆਈਸੋਮੀਟਰਿਕ,ਆਈਸੋਟੋਨਿਕ ਅਤੇ ਆਈਸੋਕਾਈਨੈਟਿਕ ਕਸਰਤਾਂ
- ਸ) ਸਰਕਟ ਸਿਖਲਾਈ
- ਹ) ਅੰਤਰਾਲ ਸਿਖਲਾਈ ਵਿਧੀ
- ਕ) ਫਾਰਟਲੇਕ ਸਿਖਲਾਈ ਦੀ ਵਿਧੀ
- ਖ) ਵਰਤੋਂ ਜਾਂ ਅਵਰਤੋਂ ਅਤੇ ਵਾਧੂ ਭਾਰਤ ਦਾ ਸਿਧਾਂਤ

ਪਾਠ ਤੀਜਾ – ਸਗੈਰਿਕ ਸਿੱਖਿਆ ਦੇ ਸਮਾਜਿਕ ਪੱਖ

- ੳ) ਵਿਭਿੰਨ ਸਮਾਜਿਕ ਸੰਗਠਨਾਂ ਦਾ ਵਿਅਕਤੀਗਤ ਅਤੇ ਸਮੂਹਿਕ ਵਿਵਹਾਰ ਉੱਪਰ ਪ੍ਰਭਾਵ
- ਅ) ਖੇਡਾਂ ਮਨੁੱਖ ਦਾ ਸਭਿਆਚਾਰਕ ਵਿਰਸਾ
- ੲ) ਸਰੀਰਿਕ ਸਿੱਖਿਆ ਵਿੱਚ ਅਗਵਾਈ ਦੀ ਸਿੱਖਿਆ ਅਤੇ ਇਸ ਦੀ ਮਹੱਤਤਾ
- ਸ) ਖੇਡ-ਕੁੱਦ ਰਾਹੀਂ ਵਿਅਕਤੀ ਅਤੇ ਸਮੂਹਾਂ ਦਾ ਸਮਾਜੀਕਰਨ
- ਹ) ਸਗੈਰਿਕ ਸਿੱਖਿਆ ਰਾਹੀਂ ਰਾਸ਼ਟਰੀ ਏਕਤਾ

ਪਾਠ ਚੌਥਾ ਅਸਮਰੱਥਾ ਦੀ ਰੋਕਥਾਮ ਅਤੇ ਮੜ ਵਸੇਵਾ

- **ੳ**) ਪਰੀਭਾਸ਼ਾ ਅਤੇ ਅਸਮਰੱਥਾ ਦੇ ਵਿਭਿੰਨ ਕਾਰਕ
- ਅ) ਸਾਧਾਰਨ ਕਿੱਤਿਆਂ ਵਿੱਚ ਪੈਦਾ ਹੋਣ ਵਾਲੀ ਅਸਮਰੱਥਾ ਅਤੇ ਕਿੱਤੇ ਸੰਬੰਧੀ ਬਿਮਾਰੀਆਂ
- ੲ) ਅਸਮਰੱਥਾ ਰੋਕਣ ਦੇ ਆਮ ਸਿਧਾਂਤ
- ਸ) ਮੁੜ-ਵਸੇਵਾ (ਪੁਨਰਵਾਸ) ਦੀ ਪਰੀਭਾਸ਼ਾ, ਖੇਤਰ ਅਤੇ ਪੁਨਰਵਾਸ ਲਈ ਉਪਲੱਬਧ ਸੇਵਾਂਵਾਂ

ਪਾਠ ਪੰਜਵਾਂ ਆਮ ਖੇਡ ਸੱਟਾਂ ਤੋਂ ਬਚਾਓ ਅਤੇ ਮੁੱਢਲੀ ਸਹਾਇਤਾ

- ਉ. ਮੁੱਢਲੀ ਸਹਾਇਤਾ ਦੇ ਅਰਥ ਅਤੇ ਮੁੱਢਲੇ ਸਹਾਇਕ ਦੇ ਗੁਣ
- ਅ. ਮੁੱਢਲੀ ਸਹਾਇਤਾ ਅਤੇ ਫੇਫੜਿਆਂ ਨੂੰ ਪੁਨਰ ਚਾਲੂ ਕਰਨਾ (ਸੀ ਪੀ ਆਰ) ਅਤੇ ਸਿਹਤ ਵਿਗਿਆਨ ਸਮੇਤ ਫੇਫੜਿਆਂ ਤੇ ਦਿਲ ਨੂੰ ਪੁਨਰ ਚਾਲੂ ਕਰਨਾ

- ੲ. ਹੱਡੀ ਟੁੱਟਣ ਅਤੇ ਖਿਸਕਣ ਤੇ ਮੁਢਲੀ ਸਹਾਇਤਾ
- ਸ. ਮੋਚ ਅਤੇ ਖਿਚਾਅ ਲਈ ਮੁੱਢਲੀ ਸਹਾਇਤਾ

ਪਾਠ ਛੇਵਾਂ ਪਰਿਵਾਰਿਕ ਜੀਵਨ ਸਬੰਧੀ ਸਿੱਖਿਆ

- **ੳ**. ਪਰਿਵਾਰ ਦਾ ਅਰਥ, ਕੰਮ ਅਤੇ ਸਮਾਜਿਕ ਸੰਸਥਾਂਵਾਂ ਦੀ ੳਪਯੋਗਤਾ
- ਅ. ਕਿਸ਼ੋਰ ਅਵਸਥਾ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ ਅਤੇ ਉਹਨਾਂ ਦਾ ਪ੍ਬੰਧ
- ੲ. ਬੱਚਿਆਂ ਦੇ ਕਲਿਆਣ ਵਿੱਚ ਮਾਤਾ- ਪਿਤਾ ਦਾ ਯੋਗਦਾਨ
- ਸ. ਵਿਆਹ ਅਤੇ ਪਰਿਵਾਰਿਕ ਜੀਵਨ ਦੀ ਤਿਆਰੀ

ਪਾਠਕ੍ਰਮ (ਪ੍ਰਯੋਗੀ)

ਸਮਾਂ 4 ਘੰਟੇ ਪ੍**ਯੋਗੀ** : 4**●** ਅੰਕ

ੳ) ਟਰੈਕ ਅਤੇ ਫ਼ੀਲਡ ਦੀ ਈਵੈਂਟਸ (ਲੜਕੇ ਅਤੇ ਲੜਕੀਆਂ ਲਈ) ਹਰੇਕ ਈਵੈਂਟ ਦੇ 6 ਅੰਕ ਹੋਣਗੇ। ਹੇਠ ਲਿਖਿਆਂ ਵਿੱਚੋਂ ਕੋਈ ਦੋ ਈਵੈਂਟਸ ਇੱਕ ਟਰੈਕ ਵਿੱਚੋਂ ਅਤੇ ਇੱਕ ਫੀਲਡ ਵਿੱਚੋਂ ਚੁਣੀਆਂ ਜਾ ਸਕਦੀਆਂ ਹਨ।

ਟਰੈਕ ਈਵੈਂਟਸ :- 1●● ਮੀਟਰ ਦੌੜ , 2●● ਮੀਟਰ ਦੌੜ, 4●● ਮੀਟਰ ਦੌੜ, 8●● ਮੀਟਰ ਦੌੜ, 3●●● ਮੀਟਰ ਦੌੜ ਅਤੇ ਲੜਕਿਆਂ ਲਈ 11● ਮੀਟਰ ਹਰਡਲ (ਹਰਡਲ ਦੀ ਉਚਾਈ 96.4 ਸੈ.ਮੀ. ਅਤੇ 1● ਹਰਡਲਾਂ), ਲੜਕੀਆਂ ਲਈ 1●● ਮੀਟਰ (ਹਰਡਲ ਦੀ ਉਚਾਈ 76.2 ਸੈ.ਮੀ.) ਅਤੇ 8 ਹਰਡਲਾਂ, 4×1●● ਮੀਟਰ (ਲੜਕੀਆਂ ਵਾਸਤੇ) ਅਤੇ 4×1●● ਮੀਟਰ (ਲੜਕਿਆਂ ਵਾਸਤੇ) ਰਿਲੇਅ ਦੌੜ 6 ਅੰਕ

ਫੀਲਡ ਈਵੈਂਟਸ:- ਹੈਮਰ ਥਰੋ, ਡਿਸਕਸ ਥਰੋ, ਜੈਵਲਿਨ ਥਰੋ, ਸ਼ਾਟ ਪੁੱਟ, ਲੰਬੀ ਛਾਲ਼, ਉੱਚੀ ਛਾਲ਼, ਤੀਹਰੀ ਛਾਲ਼, ਪੋਲ ਵਾਲਟ 6 ਅੰਕ

ਅ) ਹੇਠ ਲਿਖੇ ਦੋਨੋਂ ਗਰੁੱਪਾਂ ਵਿੱਚੋਂ ਕੋਈ ਇੱਕ-ਇੱਕ ਖੇਡ ਦੀ ਚੋਣ ਕਰਨੀ ਲਾਜ਼ਮੀ ਹੈ। ਹਰੇਕ ਖੇਡ ਦੇ 5 ਅੰਕ ਹੋਣਗੇ।

ਖੇਡਾਂ (ਲੜਕੇ ਅਤੇ ਲੜਕੀਆਂ ਲਈ)।

ਗਰੁੱਪ 1. ਹੈਂਡਬਾਲ, ਕਬੱਡੀ, ਮੁੱਕੇਬਾਜ਼ੀ, ਟੇਬਲ ਟੈਨਿਸ, ਜਿਮਨਾਸਟਿਕ, ਫੁੱਟਬਾਲ। 5 ਅੰਕ ਗਰੁੱਪ 2. ਬਾਸਕਟਬਾਲ, ਯੋਗ, ਗਤਕਾ, ਵਾਲੀਬਾਲ, ਐਥਲੈਟਿਕਸ, ਸਰਕਲ ਕੱਬਡੀ। 5 ਅੰਕ

ਸ) ਖੇਡਾਂ ਵਿੱਚ ਪ੍ਰਾਪਤੀ (ਵੱਧ ਤੋਂ ਵੱਧ 1● ਅੰਕ) ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਅੰਕ ਦਿੱਤੇ ਜਾਣਗੇ।

ਸਕੂਲ ਪ੍ਤੀਨਿੱਧਤਾ 2 ਅੰਕ ਜੋਨ ਪ੍ਤੀਨਿੱਧਤਾ 4 ਅੰਕ ਜਿਲ੍ਹਾ ਪ੍ਤੀਨਿੱਧਤਾ 6 ਅੰਕ ਰਾਜ ਪ੍ਤੀਨਿੱਧਤਾ 8 ਅੰਕ ਕੌਮੀ ਪ੍ਤੀਨਿਧਤਾ 1● ਅੰਕ ਹ) ਪ੍ਰੈਕਟੀਕਲ ਕਾਪੀ, ਚਾਰਟ ਜਾਂ ਮਾਡਲ 3 ਅੰਕ ਕ) ਜ਼ੁਬਾਨੀ ਪ੍ਰਸ਼ਨ-ਉੱਤਰ 5 ਅੰਕ

ਨੋਟ : ਪ੍ਰੈਕਟੀਕਲ ਦੇਣ ਸਮੇਂ ਪ੍ਰੀਖਿਆਰਥੀ ਸਪੋਰਟਸ ਕਿੱਟ ਵਿੱਚ ਹੋਣਾ ਚਾਹੀਦਾ ਹੈ।

ਨੋਟ :- ਸਮੂਹ ਸਰੀਰਿਕ ਸਿੱਖਿਆ ਅਤੇ ਖੇਡਾਂ ਦੇ ਅਧਿਆਪਕਾਂ ਨੂੰ ਹਦਾਇਤ ਕੀਤੀ ਜਾਂਦੀ ਹੈ ਕਿ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਅਲੱਗ ਤੋਂ ਕੋਈ ਵੀ ਪ੍ਰੈਕਟੀਕਲ ਨੋਟ ਬੁੱਕ ਆਦਿ ਨਾ ਲਗਾਈ ਜਾਵੇ ਅਤੇ ਪ੍ਰੈਕਟੀਕਲ/ਕਿਰਿਆਵਾਂ ਨੂੰ ਪਾਠ-ਕ੍ਮ ਦੇ ਨਾਲ ਨਾਲ ਕਰਵਾਈਆਂ ਜਾਣ ਅਤੇ ਵਿਦਿਆਰਥੀਆਂ ਦੁਆਰਾ ਇਹਨਾਂ ਕਿਰਿਆਵਾਂ ਨੂੰ ਸਧਾਰਨ ਨੋਟ ਬੁੱਕ ਵਿੱਚ ਹੀ ਲਿਖ ਲਿਆ ਜਾਵੇ।

CLASS-XII

40. RURAL DEVELOPMENT AND ENVIRONMENT

Time: 3 Hrs Theory: 90 Marks

CCE: 10 Marks Total: 100 Marks

STRUCTURE OF QUESTION PAPER

All questions are compulsory.

The question paper will comprise 4 sections A, B, C and D of 27 questions in total. Student will attempt 25 questions. The question paper will have:

SECTION-A

Objective Type Questions: This section will include questions with one word answer/ fill in the blank/ true or false/ multiple choice type questions. Question No. 1 will have ten Parts (A to J) and each Part will carry 1 mark.

 $10 \times 1 = 10$

SECTION-B

Very Short Answer Type Questions: This section will have 12 questions (from Q no.2 to 13) Each question will carry 2 marks. All Questions are compulsory. Answer of each question should be in 20-30 words. $12 \times 2 = 24$

SECTION-C

Short Answer Type Questions: This section will have 10 questions from 14 to 23. Each question will carry 4 marks. Student have to attempt any eight out of ten questions Each question should be in 50-60 words.

8×4=32

SECTION-D

Long answer Type Questions: This section will have 4 questions (24 to 27) with internal choice. Each question will carry 6 marks. Answer of each question should be in 150-200 words. There will be 100% internal choice in these questions. $6\times4=24$

Note:- Weightage to each part must be given in each type of questions as appropriate.

Typology of Questions	Number of	Marks	Total	Division	of Syllabus
	questions	Division	marks	Part -I	Part -II
A. Objective Type	1	10	10 Marks	7	3
Questions A to J	(In Parts	1 mark			
	A to J)	each part			
B. Very Short Answer	12	02 marks	24 Marks	8	4
questions		each			
C. Short Answer	10	04 marks	32 marks	7	3
Questions	To be				
(To be attempted = 8)	attempted				
	8				
D. Long Answer	4	06 marks	24 Marks	2	2
Questions (with				(Internal	(Internal
internal choice)				choice)	choice)
Total			90		

SYLLABUS PART-1

Unit-1 Environment:

- (a) Nature and scope of Environment Education: Objective of environment studies, the need of environment studies at local, regional and national levels.
- (b) The logic behind the Holistic view of environment .Man as a culturally contributing activist either positively or passively.
- (c) Ecology: Ecological cycle and ecological principles, Relationship between Ecology and Economics, Political and Social implications of Environmental issues.

Unit-2 Geographical Features of the State (Punjab)

- (a) Physical situation: Annual rainfall, total cropped area: land under trees and forests.
- (b) Agro- climate regions: effects of weather and climate on growth, maturity and harvesting of crops,
- (c) Physical properties of the Soil, Structure and its types.

Unit-3 Conservation of Natural resources of the State (Punjab)

- (a) Land and mineral resources.
- (b) Major water and power resources.
- (c) Forest wealth of Punjab. Paucity of natural forests in the State. Forest policy of the State Govt.

Unit-4 Pollution

- (a) Environment pollution through industrial products and wastes, insecticides and pesticides.
- (b) Pollution of air and water in rural areas; various ways and means to check it.

Unit-5 Population distribution

- (a) Size and rate of growth of population: causes and effects of rapidly growing population, family welfare and other measures to check population growth.
- (b) Population Education: highlighting the problems of large families and propagating the idea of small families

PART -II AGRICULTURE (With special reference to Punjab)

Unit-6 Agro-industries

(a) Dairy Farming.

- (i) Importance of dairy as an industry for the rural development.
- (ii) Important Breeds of Cattle i.e. Cows, Buffaloes, Sheep, and Goats reared in the states and improvement in their breeds.
- (iii) Improvement of their yield through proper nutrients in feed and feeding stuff.
- (iv) Major animal diseases and their control.

(v) Marketing of milk products in the rural areas.

(b) Poultry Farming

- (i) Importance of poultry farming as an industry for rural development
- (ii) Poultry houses and equipment.
- (iii) Proper feeding of poultry birds and improvement in their breeds.
- (iv) Major poultry diseases and their remedies.
- (v) Packing and marketing of poultry products.

(c) Piggery and Fisheries

(i) Scope of piggery and fisheries in the state.

HORTICULTURE

Unit-7 Horticulture (with special reference to Punjab)

- (a) Importance of special forestry in the rural development. Economic and environment benefits of social forestry.
- (b) Growing of some important trees like *Acacia* (Kikar), *Dalbergia* (Tali), Poplar and *Eucalypt'us* in the rural areas and role of the state Govt. for encouraging social forestry in the villages.
- (c) Fruit plants
 - Growing of some major fruit plants in the different parts of the State. Methods of their planting, initial care, irrigation methods and control of their diseases. Fruit marketing, and preservation.
- (d) Vegetable plants
 - (i) Cultivation of various vegetables grown in different parts of the State.
 - (ii) Major vegetable diseases and their control.
 - (ii) Marketing of vegetables and their preservation.

CLASS-XII 41. MEDIA STUDIES

Time: 3 Hrs Theory Paper: 70 Marks

CCE: 10 Marks
Practical: 20 Marks
Total: 100 Marks

OBJECTIVES

Communication media have under gone big changes during a couple of decades and made its importance more meaningfully and abundantly felt. This has made our society awake in era of various new concepts and phenomena such as globalization, social media, civil society, new media and so on. It is being felt that communication media are playing an important role in shaping young minds, hence introductory information and practice is to be provided to students in this subject, at this stage.

STRUCTURE OF QUESTION PAPER (THEORY)

- 1. The questions shall be set keeping in mind that the subject matter is for beginners.
- 2. There will be 30 questions in all.
- 3. Part-1 of the question paper shall consist of 8 questions of 1 mark each all objective type, to be set from whole of syllabus.

1×8=8

- 4. Part-II of the question paper shall consist of 10 short answer questions of 2 marks each. The answer to such questions may run into two to three sentences. All questions shall cover whole of the syllabus.

 2×10=20
- 5. Part-III of the question paper shall consist of 9 questions of 4 marks each, the examinees shall attempt any 6 of them in a paragraph or two in size or length. Paper setter shall select four questions each from each unit.

 4×6=24
- 6. Fourth part of the question paper shall contain 3 questions of 6 marks each, with 100% internal choice, atleast 3 chosen from each unit. Each answer shall run into 300 words minimum.

6×3=18

Forms of	Objective type	Short	Short	Long	Any
Questions		Answer-I	Answer-II	Answer	other
	Multiple			Questions	
	choice				
	Questions				
Number of	08	10	06	03	
Questions					
Marks	08	20	24	18	
allotted					
Percentage	12.5	27	35.5	25	
of Marks					

SYLLABUS

Unit- I History and Development of Media

Group - A

- Brief history and development of media in India, with Special reference of Punjab
 - Evolution of Print Media Evolution of Radio Evolution of Television
 - Evolution of Cinema Evolution of Internet.
- 2. History of Punjabi Journalism;
 - Evolutionary period 1850 A.D. to 1900 A.D. 1900 A.D. to 1947 A.D.
 - 1947 A.D. to 2000 A.D. After 2000 A.D.

Group - B

- 3. Radio Programmes Characteristics, Types and Impact (Expected and Achieved)
- 4. T.V Programmes Characteristics, Types and Impact.

(Expected and Achieved)

5. Script writing for Radio and Television programmes.

Unit- II Films and Cyber Journalism

Group - C

- 6. Indian Cinema; Types (Commercial & Art), Characteristics and Impact.
- 7. Punjabi Cinema; Characteristics and Impact
 (Special Reference to: Chann Pardesi, Marhi da diva, Desh hoeya
 Pardeis, Nabar and Semi-Punjabi and hindi films; Pinjar,
 Chakarview, Udta Punjab, Page 3& Peepli Live &)
- 8. Cyber/Online Journalism:
 - (i) Social Networking; Facebook, Twitter, Blogging, Websites, Portal, Instagram
 - (ii) Communication through Cell phones; Whatsapp, SMS

Group-D

- 9. Media Advertising; Selling and Marketing products through advertising.
- 10. Introduction to Media ethics.
- 11. Basic terminology and use reference materials.

Viva-Voce (Practical)

Time: 3 Hrs Marks: 20

Instructions for Examiners and Examinees:

1. Printed material or aired programmes: Each student shall have to send their articles, features and letters to various newspapers or magazine and (Or) they may take part in any of the radio programmes. They shall have to maintain record of their practical work. Printed/Broadcasted/Telecasted materials in accordance with syllabus shall be assessed out of maximum 6 marks.

2. Teleboard Display and news reading. Display of teleboard and putting the candidate any questions out of topics mentioned in syllabus

shall also be awarded out of maximum 6 marks.

Viva: The examiner may ask the candidate questions on visit to any Radio or T.V station and Current Affairs related to running academic session period. 8 marks

CLASS-XII 42. PHYSICS

Time: 3 Hrs

Theory: 70 Marks
Practical: 20 Marks
C.C.E.: 10 Marks

Total: 100 Marks

STRUCTURE OF QUESTION PAPER (THEORY)

- 1. There will be one theory paper comprising of 26 questions.
- 2. Question no. 1 to 8 will be of one mark each.
- 3. Question no. 9 to 16 will be of two marks each.
- 4. Question no.17 to 23 will be of four marks each. These will be internal choice in any two questions.
- 5. Question no. 24 to 26 will be of six marks each. There will be internal choice in them.
- 6. Distribution of marks over different dimensions of the paper will be as follows.

LEARNING OUTCOMES	MARKS	PERCENTAGE OF MARKS
KNOWLEDGE	26	36%
UNDERSTANDING	30	44%
APPLICATION	14	20%
Total	70	100%

- 7. In the category of one mark question there will be question of the objective type such as Yes/No, tick/cross, fill in the blanks, multiple choice, true/false etc.
- 8. Use of un-programmable calculator is allowed. The log tables can be used.
- 9. Total weightage of numerical will be 20% i.e 14 marks. There will be three numericals of 2 marks each & 2 numericals of 4 marks each.

UNIT WISE DISTRIBUTION OF MARKS

Unit No.	Title	Marks
UNIT-I	Electrostatics	10
UNIT-II	Current Electricity	07
UNIT-III	Magnetic effects of current and magnetism	09
UNIT-IV	Electromagnetic Induction & current	07
UNIT-V	Electromagnetic waves	03
UNIT-VI	Optics	14
UNIT-VII	Dual nature of matter	05
UNIT-VIII	Atoms and Nuclei	05
UNIT-IX	Electronics devices	07
UNIT-X	Communication Systems	03
_	Total Marks	70

SCHEMATIC DISTRIBUTION OF MARKS

UNIT	Title	1 Mark	2 Marks	4 Marks	6 Marks	Total
		Question	Question	Question	Question	Marks
1	Electrostatic	-	-	1	1	10
2	Current Electricity	1	1	1	-	07
3	Magnetic effects of current &	1	1	_	1	09
	magnetism					
4	Electromagnetic Induction &	1	1	1	-	07
	Alternating current					
5	Electromagnetic waves	1	1	-	-	03
6	Optics	-	2	1	1	14
7	Dual Nature of matter	1	-	1	-	05
8	Atoms & Nuclei	1	ı	1	-	05
9	Electronic devices	1	1	1	-	07
10	Communication system	1	1	-	-	03
Total Questions		8	8	7	3	26
Total Marks		8	16	28	18	70

INSTRUCTION FOR PAPER SETTER

Note: There will be one theory paper consisting of total 26 questions.

- 1. Question no.1 to 8 will be of 1 mark each. There will be 4 questions of the objective type such as yes/no, multiple choice questions, fill in the blanks.
- 2. Question no.9 to 16 will be of 2 marks each. There will be 3 numerical questions of 2 marks each.
- 3. Question no. 17 to 23 will be of 4 marks each. There will be two four marks questions of internal choice. Each of these questions will have one theory question & other part will be numerical from the same unit. These questions should not be lengthy.
- 4. Question No.24 to 26 will be 6 marks and their will be 100% internal choice in them. These questions must have two parts: part (a) will be of one mark and part (b) will be of 5 marks. Part (a) may cover any topic from same unit as of long 5 marks question of part (b).
- 5. Questions paper should cover all the syllabus.
- 6. No question or topic should be repeated in the question paper.
- 7. Questions in the paper can be asked only from mentioned PSEB syllabus. Questions from any topic which is not mentioned in the syllabus will be considered as out of syllabus question.
- 8. All 3 sets must be of equal standard and difficulty level questions.
- 9. At the end of each question, paper setter must write detailed distribution of marks of each sub-question.
- 10. Vague, many possible answer questions, confusing answer question etc type of question will not be asked in the paper. One mark questions, answer should be of one word or one line only.
- 11. Language used should be clearly understood & specific.
- 12. Time and length limit of paper should be kept in mind.

- 13. Time and length limit of paper should be kept in mind while setting the paper.
- 14. Questions paper should be made to according to knowledge, understanding and applications part marks distribution.

THEORY

Unit-1: Electrostatics

Electric Charges; charging by induction, basic properties of electric charge (addition of charges, quantisation of charges and their Conservation) Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and cotineous charge distribution.

Electrical field, electric field due to a point charge, electric field due to system of charge, physical significance of electric field, electric-field lines; electric dipole, electric field due to a dipole; (on its axis, on equatorial plane) physical significance of dipoles; torque on a dipole in uniform electric field. Electric field due to continuous charge distribution.

Electric flux, statement of Gauss's theorem proof of Gauss's theorem for a charge enclosed in sphere, and its applications to find electric field due to infinitely long straight wire, uniformly charged infinite thin plane sheet and uniformly charged thin spherical shell (Field inside and outside).

Electric potential, potential difference, electric potential due to a point charge, potential due to an electric dipole with special cases for axis and equatorial plane and system of charges; equipotential surfaces, its properties, relation between field and potential electrical potential energy of a system of two point charges potential energy in external field and of electric dipole in an electrostatic field.

Conductors and insulators, electrostatics of conductors, free charges and bound charges inside a conductor. Electrostatic shielding its uses, Dielectrics and electric polarisation, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor, Van de Graaf generator.

Unit-II: Current Electricity

Electric current, flow of electric charges in a metallic conductor, drift velocity, drift of electron mobility and their relation with electric current: Ohm's law, electrical resistance. V-1 characteristics (linear and non linear), electrical energy and power, electrical resistivity and conductivity. Carbon resistors, colour code for carbon resistors; series and parallel combinations of resistors; temperature dependence of resistance and resistivity. Internal resistance of a cell, potential difference and emf of cell, combination of cells in series and in parallel.

Kirchhoff's laws and simple applications of Wheatstone bridge, meter bridge. Potentiometer-principle and its applications to measure potential difference and for comparing emf of two cells, measurement of internal resistance of a cell.

Unit-III: Magnetic Effects of Current and Magnetism

Concept of magnetic field. Oersted's experiment;

Biot-savart law and its application to find mangnetic field on the axis of a current carrying circular loop, Ampere's circuital law (no proof) and its applications to infinitely long straight wire, straight and toroidal solenoids.

Force on a moving charge in uniform magnetic and electric fields. Motion in a magnetic field, motion in combined electric and magnetic field (velocity selector) Cyclotron.

Force on a current-carrying conductor in a uniform magnetic field Force between two parallel current-carrying conductors, definition of ampere. Torque experienced by a current loop in uniform magnetic field; moving coil galvanometersits current sensitivity and conversion to ammeter and voltmeter.

Current loop as a magnetic dipole and its magnetic dipole moment. Magnetic dipole moment of a revolving electron. Magnetic field intensity due to a magnetic dipole (Bar magnet) along its axis and perpendicular to its axis. Torque on a magnetic dipole (bar magnet) in a uniform magnetic field; bar magnet as an equivalent solenoid, magnetic field lines; magnetism and Gauss's law; Earth's magnetic field and magnetic elements, magnetisation and magnetic intensity, magnetic properties of materials, Para-, dia-and ferromagnetic substances with examples, Electromagnets and factors affecting their strengths. Permanent magnets.

Unit-IV: Electromagnetic Induction and Alternating Currents

Electromagnetic induction, Faraday's and henry experiments,magnetic flux,Faraday laws, induced emf and current, Lenz's Law and conservation of energy, motional emf, Eddy currents: Self and mutual inductance.

Alternating current, peak and rms value of alternating current/voltage; reactance and impedances; phasors, ac applied across resistance, ac applied across inductor, as applied across capacitor, ac applied across LCR, LC oscillations, across inductor, ac applied across capacitor ac applied across capacitor ac applied oscillations, (qualitative treatment only), LCR series circuit resonance; power in AC circuit, wattless current.

AC generator and transformer.

Unit-V: Electromagnetic Waves

Need for displacement current, Electromagnetic waves and their characteristics (qualitative ideas only). Transverse nature of electromagnetic waves.

Electromagnetic spectrum (Radio waves, Radio-microwaves, infra-red, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.

Unit-VI: Optics

Reflection of light, spherical mirrors, mirror formula. Refraction of light, total internal reflection and its applications, optical fibers, refraction at spherical surfaces, refraction by lens, lenses, thin lens formula/equation, lens-maker's formula. Magnification, power of a lens, combination of thin lenses in contact, combination of lens and mirror. Refraction and dispersion of light through a prism. Some natural phenomenon due to sunlight, Scattering of light-blue colour of the sky and reddish appearance of the sun at sunrise and sunset.

Optical instruments:

Human eye, image formation and accommodation, correction of eye defects (myopia, hypermetropia) using lenses. Microscopes and astronomical tetescopes (reflecting and refracting) and their magnifying powers.

Waves optics:

wave front and Huygens' Principle, reflection and refraction of plane wave at a plane surface using Huygens' Principle, wave fronts. Proof of laws of reflection and refraction using Huygens 'Principle. Interference Young's double hole experiment and expression for fringe width, coherent sources and incoherent addition of waves and sustained interference of light. Diffraction due to a single slit, width of central maximum. Resolving power of microscopes and astronomical telescopes. Polarisation, polarization by scattering and reflection, plane polarised light -Brewster's law, uses of plane polarised light and Polaroids.

Unit-VII: Dual nature of Matter and Radiation

Electron emission, Photoelectric effect, Hertz and Lenard's observations'; experimental study of photoelectric effect, and wave theory of light, Einstein's photoelectric equation, particle nature of light, the photon, Matter waves-wave nature of particles, de Broglie relation. Davission-Germer experiment (experimental details should be omitted; only conclusion should be explained).

Unit-VIII: Atoms & Nuclei

Alpha-particle scattering experiment; Rutherford's model of atom; Bohar modal of hydrogen atom, expression for radius, velocity and energy of electron in orbit, energy levels, line spectrum of hydrogen atom, atomic spectra, de-Broglie's explanation of Bohr's second postulate of quantization.

Composition and size of nucleus, atomic masses, isotopes, isobars; isotones. Radioactivity- alpha, beta and gamma particles/rays and their properties; radioactive decay law, alpha, beta and gamma decay. Mass-energy

relation, mass-defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear force, nuclear reactor, Nuclear energy.

Unit-XI: Electronic Devices

Classification of metal insulator and semiconductor, Energy bands in solids idea only) conductor, insulators Semiconductors; intrinsic and extrinsic semiconductors,p-n junction, semiconductor Diode-1-V characteristics in forward and reverse bias, diode as a rectifier, 1-V characteristics of LED, photodiode, solar cell and Zener diode, Zener diode as a voltage regulator. Junction transistor, transistor action; characteristics of a common emitter transistor: transistor as an amplifier (common emitter configuration) and oscillator, digital electronics and Logic gates (OR, AND, NOT, NAND and NOR). Transistor as a switch, integrated circuits.

Unit-X: Communication Systems

Elements of a communication system (block diagram only); basic terminology Used in Electronic Communication Systems, bandwidth of signals (speech, TV and digital data); bandwidth of transmission medium-Propagation of electromagnetic waves in the atmosphere, Sky and space wave propagation. Need for modulation. Production and detection of an amplitude modulated wave.

NOTE:- TOPICS GIVEN BELOW ARE IN PRESCRIBED SYLLABUS OF P.S.E.B BUT NOT MENTIONED IN BOOK SUBSCRIBED BY PSEB. SO THESE TOPICS ARE TO BE DONE WITH STUDENTS AND PAPER WILL INCLUDE THESE TOPICS AND QUESTIONS FROM THESE TOPICS WILL NOT CONSIDERED AS OUT OF SYLLABUS.

- 1. Electric flux
- 2. Potentiometer and its applications to measure potential difference
- 3. Magnetic field intensity due to a magnetic dipole (Bar magnet) along its axis and perpendicular to its axis.
- 4. Combinations of lens and mirror
- 5. Poor of laws of reflection and refraction using Huygens 'Principle'.
- 6. Alpha-beta and gamma particles/rays and their properties.

PHYSICS STRUCTURE OF PAPER (PRACTICAL)

Time: 3 hrs.		Total: 20 Marks
Two experiment	10	
Record of Activities	2	
Viva on Activities	3	
Record of Experiments	2	
Viva of Experiments	3	
Total	20	_

PRACTICALS SYLLABUS

Experiments

SECTION-A

- 1. To determine resistance per unit length of a given wire by plotting a graph of potential difference versus current.
- 2. To find resistance of a given wire using meter bridge and hence determine the specific resistance of its material.
- 3. To verify the laws of combination (series/parallel) of resistance using a meter bridge.
- 4. To compare the emf of two given primary cells using potentiometer.
- 5. To determine the internal resistance of given primary cell using potentiometer.
- 6. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.
- 7. To convert the given galvanometer of known resistance and figure of merit into an ammeter and voltmeter of desired range and to verify the same.
- 8. To find the frequency of the A.C. mains using a sonometer and electromagnet.

SECTION-B

- 1. To find the value of v for different values of u in case of a concave mirror and find their focal length.
- 2. To find the focal length of a convex lens by plotting graphs between u and v or between 1/u and I/v.
- 3. To find the local length of a convex mirror, using a convex lens.
- 4. To find the focal length of a concave lens, using a convex lens.
- 5. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
- 6. To draw the I-V characteristic curve of a p-n junction in forward bias and reverse bias.
- 7. To draw the characteristic curve of a zener diode and to determine its reverse breakdown voltage.
- 8. To study the characteristics of a common-emitter npn or pnp transistor and to find out the values of current and voltage gains.
- 9. To determine the reflective index of a glass slab using a traveling microscope.
- 10. To find refractive index of a liquid by using (i) Concave mirror. (ii) Convex lens and plane mirror.

ACTIVITIES

SECTION-A

- 1. To assemble the components of a given electrical circuit.
- 2. To draw the diagram of a given open circuit comprising at least a battery, resistor rheostat, key ammeter and volt meter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.
- 3. To assemble a household circuit comprising three, bulbs, three (on/off) switches, a fuse and a power source.
- 4. To study the variation in potential drop with length of a wire for a steady current.
- 5. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter.
- 6. To measure the resistance and impedance of an inductor with or without iron core.
- 7. To demonstrate
 - (i) The use of an improvised fuse that melts with the flow of a certain current through it and
 - (ii) Different kinds of fuses used in everyday life.
- 8. To demonstrate that a current measuring device has finite non-zero resistonce. (measurement of resistance of an ammeter).
- 9. To demonstrate that a voltage measuring device has non- infinite resistance (measurement of resistance of an voetmeter).
- 10. To show that earth's magnetic field has both vertical & horizontal components, by using dip needle.
- 11. To show the magnetic field lines with the help of iron fillings of bar magnet solenoid.
- 12. To show the production of induced emf. in a coil due to movement of (i) a magnet towards and away from it (ii) similar coil carrying current towards & away from it.
- 13. To show that there are two kinds of charges and that like charges repel and unlike charges attract each other.
- 14. To demonstrate that a large emf is induced when direct current is switched off in an inductive circuit.
- 15. Make a solenoid for study of its magnetic field.

SECTION-B

- 1. To identify a diode, an LED, a transistor and 1C, a resistor and a capacity from mixed collection of such items.
- 2. Use of multimeter to (i) identify base of transistor, (ii) distinguish between npn ad pnp type transistors, (iii) see the unidirectional flow of

- current in case of a diode and an LED. iv) Check whether a given electronic component (e.g. diode, transistor or IC) is in working order.
- 3. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass stab.
- 4. To study the nature arid size of the image formed by (i) convex lens (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror).
- 5. To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.
- 6. To observe polarization of light using two Polaroids.
- 7. To observe diffraction of light due to a thin slit.
- 8. To study effect of intensity of light (by varying distance of the source) on an D.R.

CLASS-XII 43. CHEMISTRY

Time: 3 Hrs

Theory: 70 Marks

Practical: 20 Marks

C.C.E.: 10 Marks

Total: 100 Marks

STRUCTURE OF QUESTION PAPER (THEORY)

- 1. There will be one theory paper comprising of 26 questions. All questions are compulsory.
- 2. Question no. 1 to 8 will be of one mark each. All questions are compulsory.
- 3. Question no. 9 to 16 will be of two marks each. All questions are compulsory.
- 4. Question no.17 to 23 will be of four marks each. There will be internal choice in two questions.
- 5. Question no.24 to 26 will be of six marks each. There will be internal choice in them.
- 6. Distribution of marks over different dimensions of the paper will be as follows.

LEARNING OUTCOMES	PERCENTAGE OF MARKS
KNOWLEDGE	36%
UNDERSTANDING	44%
APPLICATION	20%
Total	100%

- 7. There will be question of the objective type such as Yes/No, tick/cross, fill in the blanks, multiple choice, true/false and definition etc.
- 8. Use of un-programmable calculator is allowed. The log tables can be used.
- 9. Total weightage of numerical will around 20%

UNITWISE DISTRIBUTION OF MARKS

SR.NO	UNIT	TOTAL
		MARK
1	Solid state	06
2	Solutions	05
3	Electro-chemistry	04
4	Chemical-kinetics	03
5	Surface chemistry	04
6	General principles &process of isolation of elements	02
7	p-block elements	10
8	d &f-block elements	08
9	Coordination number	02
10	Haloalkanes & Haloarenes	06
11	Alcohol, Phenols &Ether	05
12	Aldehyde, Ketons & Carbooxalic acids	05
13	Organic compounds containing Nitrogen compounds	03
14	Biomolecules	03
15	Polymers	02
16	Chemistry in everyday life	02
	TOTAL QUESTIONS &TOTAL MARKS	T.Q=26 T.M=70

Total Question in paper =26

SCHEMATIC DISTRIBUTION OF MARKS

Sr.	UNIT	1	2	4	6	TOTAL
No		MARK	MARK	MARK	MARK	MARK
1	Solid state	-	1	1	-	06
2	Solutions	1	-	1	-	05
3	Electro-chemistry	-	-	1	-	04
4	Chemical-kinetics	1	1	ı	-	03
5	Surface chemistry	-	-	1	-	04
6	General principles &process of isolation	-	1	-	-	02
	of elements					
7	p-block elements	-	-	1	1	10
8	d &f-block elements	-	1	ı	1	08
9	Coordination number	-	1	-	-	02
10	Haloalkanes & Haloarenes	-	-	-	1	06
11	Alcohol, Phenols &Ether	1	-	1		05
12	Aldehyde, Ketons & Carbooxalic acids	1	-	1	-	05
13	Organic compounds containing Nitrogen	1	1	-	-	03
	compounds					
14	Biomolecules	1	1	-	-	03
15	Polymers	-	1	-	-	02
16	Chemistry in everyday life	2	-	-	-	02
	TOTAL QUESTIONS &TOTAL MARKS	T.Q=8	T.Q=8	T.Q=7	T.Q=3	T.Q=26
		T.M=8	TM=16	T.M=2	T.M=18	T.M = 70
				8		

Total Question in paper =26 including 5 choice questions INSTRUCTIONS FOR PAPER SETTER

Note:

- 1. There will be one theory paper consisting of total 26 questions.
- 2. Question no.1 to 8 will be of 1 mark each. There will be 4 questions of the objective type such as yes/no, multiple choice questions, fill in the blanks.
- 3. Question no.9 to 16 will be of 2 marks each. There will be 3 numerical questions of 2 marks each.
- 4. Question no. 17 to 23 will be of 4 marks each. There will be two four marks questions of internal choice. These questions should not be lengthy.
- 5. Question No.24 to 26 will be 6 marks and their will be 100% internal choice in them. These questions must have two parts: part (a) will be of one mark and part (b) will be of 5 marks. Part (a) may cover any topic from same unit as of long 5 marks question of part (b).
- 6. Questions paper should cover all the syllabus.
- 7. No question or topic should be repeated in the question paper.
- 8. Questions in the paper can be asked only from mentioned PSEB syllabus. Questions from any topic which is not mentioned in the syllabus will be considered as out of syllabus question.
- 9. All 3 sets must be of equal standard and difficulty level questions.
- 10. At the end of each question, paper setter must write detailed distribution of marks of each sub-question.

- 11. Vague, many possible answer questions, confusing answer question etc type of question will not be asked in the paper. One mark questions, answer should be of one word or one line only.
- 12. Language used should be clearly understood & specific.
- 13. Time and length limit of paper should be kept in mind.
- 14. Time and length limit of paper should be kept in mind while setting the paper.

SYALLBUS (THEORY)

Unit-I: Solid, State

Classification of solids based on different binding forces: molecular, ionic, covalent and metallic solids, amorphous and crystalline solids (elementary idea), unit cell in two dimensional and three dimensional lattices, calculation of density of unit cell, packing in solids packing efficiency, voids, number of atoms per unit cell in a cubic unit cell, points defects, electrical and magnetic properties. Band theory of metals, conductors, semiconductors and insulators and n and p type semiconductors.

Unit II: Solutions

Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, colligative properties - relative lowering of vapour pressure, Raoults Law, elevation of B.P., depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass. Vant Hoff factor.

Unit III: Electrochemistry

Redox reactions; conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and laws of electrolysis (elementary idea) dry cell-electrolytic cells and Galvanic cells; lead accumulator, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, fuel cells; corrosion. Relation between Gibbs Energy change and EMF of cell.

Unit IV: Chemical Kinetics

Rate of a reaction (average and instantaneous), factors affecting rates of reaction; concentration, temperature, catalyst; order and molecularity of a reaction: rate law and specific rate constant, integrated rate equations and' half life (only for zero and first order reactions); concept of collision theory (elementary idea, no mathematical treatment). Activation Energy, Arrhenious equation.

Unit V: Surface Chemistry

Absorption physiorption and chemisorption; factors affecting adsorption of gases on solids; catalysis; homogenous and heterogeneous, activity and selectivity; enzyme catalysis; colloidal state: distinction between

true solutions, colloids and suspensions; lyophillic, lyophobic, multimolecular and macromolecular/colloids; properties of colloids; Tyndall effect, Brownian movement, electrophoresis, coagulation; emulsion-types of emulsions.

Unit VI: General Principles and Processes of Isolation of Elements

Principles and methods of extraction – concentration, oxidation, reduction electrolytic method and refining; occurrence and principles of extraction of aluminum, copper, zinc and Iron.

Unit VII: p-Block Element

Group 15 elements: General introduction, electronic configuration, occurrence, oxidation states, trends in physical and chemical properties; nitrogen - preparation, properties and uses; compounds of nitrogen- preparation and properties of ammonia and nitric acids, oxides of nitrogen (structure only); Phosphorous-allotropic forms; compounds of phosphorous preparation and properties of phosphine, halides (PCl₃,PCl₅) and oxoacids (elementary idea only).

Group16 elements: General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; dioxygen; preparation, properties and uses; classification of oxides; Ozone. Sulphur - allotropic forms; compounds of sulphur preparation, properties and uses of sulphur dioxide, sulphuric acid, industrial process of manufacture, properties and uses, oxoacids of sulphur (structures only).

Group 17 elements: (General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; compounds of halogens; preparation, properties and uses of chlorine and hydrochloric acid, interhalogen compounds, oxoacids of halogens (structures only).

Group 18 elements: General introduction, electronic configuration. Occurrence, trends in physical and chemical properties, uses.

Unit-VIII: d and f Block Elements

General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals-metallic character, ionization, enthalpy, oxidation states, ionic radii, colour, catalytic properties, magnetic properties, interstitial compounds, alloy formation. Preparation and properties of $K_2Cr_2O_7$,and KM_nO_4 .

Lanthanoids - electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and consequences.

Actenoids - Electronic configuration, oxidation states.

Unit-IX: Coordination Compounds

Coordination compounds - introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of

mononuclear coordination compounds, bonding; Werner's theory VBT, CFT, Isomerism (structure and stereo) importance of coordination compounds (in qualitative analysis, extraction of metals and biological systems).

Unit-X: Haloalkanes and Haloarenes.

Haloalkanes: Nomenclature, nature of C-X bond, physical and chemical properties, mechanism of substitution reactions, optical rotation.

Halearenes: Nature of C-X bond, substitution reactions (directive influence of halogen for monosubstituted compounds only)

Uses and environmental effects of - dichloromethane, trichlromethane, tetrachloromethane, iodoform, freons, DDT.

Unit -XI: Alcohols, Phenols and Ethers

Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only); identification of primary, secondary and tertiary alcohols; mechanism of dehydration, uses, with special reference to - methanol and ethanol.

Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols.

Ethers: Nomenclature, methods of preparation, physical and chemical properties, uses.

Unit-XII: Aldehydes, Ketones aml Carboxylic Acids

Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, and mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes; uses.

Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.

Unit-XIII: Organic compounds containing Nitrogen

Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines.

Cyanides and Isocyanides - will be mentioned at relevant places in context.

Dizonium Salts: Preparation, chemical reactions and importance in synthetic organic chemistry.

Unit-XIV: Biomolecules

Carbohydrates - Classification (aldoses and ketoses), monosaccaharides (glucose and fructose), oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); importance

Proteins - Elementary idea of amino acids, peptide bond, polypeptides proteins, primary structure, secondary structure, tertiary

structure and quaternary structure (qualitative idea only), denaturation of proteins; enzymes.

Vitamins: Classification and functions.

Harmones: Elementary idea (excluding structure)

Nucleic Acids: DNA & RNA

Unit-XV: Polymers

Classification - natural and synthetic, methods of polymerization (addition and condensation), copolymerization. Some important polymers; natural and synthetic like polythene, nylon, polyesters, bakelite, rubber. Biodegradable and Non- Biodegradable Polymers.

Unit-XVI: Chemistry in everyday life:

- 1. Chemicals in medicines analgesic, transquilizers, antiseptics, disinfectants, antimicrobials, antifertility drugs, antibiotics, antacids, antihistamines.
- **2. Chemicals in food-** preservatives, artificial sweetening agents. Elementary idea of antioxidents.
- 3. Cleansing agents- soaps and detergents, cleansing action.

CHEMISTRY

STRUCTURE OF QUESTION PAPER (PRACTICAL)

Time: 3.00 hrs.	Marks: 20
Volumetric Analysis	6
Mixture Analysis	5
Content based Experiment	5
Class record & viva	4
Total Marks	

PRACTICAL SYLLABUS

A. Surface Chemistry

- a. Preparation of one lyophilic and one lyophobic sol. Lyophilic sol starch, egg albumin and gum. Lyophobic sol aluminum hydroxide, ferric hydroxide, arsenious sulphide.
- b. Study of the role of emulsifying in stabilizing the emulsions of different oils.

B. Chemical Kinetics

- a. Effect of concentration and temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid.
- b. Study of reaction rates of any one of the following:
 - i. Reaction of iodide ion with hydrogen peroxide at room temperature using different concentration of iodide ions.
 - **ii.** Reaction between potassium iodate, KIO₃, and sodium sulphite: (Na₂ SO₃) using starch solution as indicator (clock reaction).

- **C. Thermochemistry**: Any one of the following experiments
 - a. Enthalphy of dissolution of copper sulphate or potassium nitrate.
 - b. Enthalphy of neutralization of strong acid (HCl) and strong base (NaOH)
 - c. Determination of enthalpy change during interaction (Hydrogen bond formation) between acetone and chloroform.
- **D. Electrochemistry:** Variation of cell potential in Zn/Zn⁺²IICu⁺²/Cu with change in concentration of electrolytes (CuSO₄ or ZnSO₄ at room temperature.

E. Chromatography

- a. Separation of pigments from extracts of leaves and flowers by paper chromatography and determination of R_f values.
- b. Separation of constituents present in an inorganic mixture containing two cations only (constituents having wide difference in R_f, values to be provided).

F. Determination of concentration/morality of KMnO₄, solution by titrating it against a standard Solution of:

- a. Oxalic acid.
- b. Ferrous ammonium sulphate.
 (Students will be required to prepare standard solutions by weighing themselves).

G. Preparation of Inorganic Compounds

- a. Preparation of double salt of ferrous ammonium sulphate or potash alum.
- b. Preparation of potassium ferric oxalate.
- H. Preparation of Organic Compounds: Preparation of any two of the following compounds
 - a. Acetanilide
 - b. Di-benzal acetone
 - c. p-Nitroacetanilide,
 - d. Aniline yellow or 2-Napthol aniline dye.
 - e. Lodoform

I. Test for the functional groups present in organic compounds: Unsaturation, alcoholic, pheholic, aldehydic, ketonic, carboxylic and amino (primary) groups.

- J. Study of carbohydrates, fats and proteins in pure form and detection of their presence in given food stuffs.
- **K. Qualitative analysis:** Determination of one catiop and one anion in a given salt.

Cations- Pb²⁺, Cu²⁺, As³⁺, Al³⁺, Fe³⁺,
$$M_n^{2+}$$
, Zn²⁺, Co²⁺, N_i^{2+} , Ca²⁺, Sr²⁺, Ba²⁺, Mg^{2+} , NH_4^+

Anions-

$$CO_3^{2-}, S^{-2}, SO_3^{2-}, NO_2^{-1}, NO_3^{-1}, Cl^-, Br^-, I^{-1}, PO_4^{3-}, C_2O_4^{2-}, CH_2COO^-$$

(Note: Insoluble salts excluded)

PROJECT

Scientific investigations involving laboratory testing and collecting information from other sources.

A few suggested Projects

- 1. Study of presence of oxalate ions in guava fruit at different stages of ripening.
- 2. Study of quantity of casein present in different samples of milk.
- 3. Preparation of soyabean milk and its comparison with the natural milk with respect to curd formation, effect of temperature etc.
- 4. Study of the effect of potassium bisulphate as food preservative under various conditions (temperature, concentration, time etc.)
- 5. Study of digestion of starch by salivary amylase and effect of PH and temperature on it.
- 6. Comparative study of the rate of fermentation of following material wheat flour. gram flour, Potato juice, carrot juice etc.
- 7. Extraction of essential oils present in saunf (aniseed), Ajwain (carum) illaichi (cardamom).
- 8. Study of common food adulterants in fat, oil, butter, sugar, turmeric powder, chilli powder and pepper.

Note: Any investigatory project, which involves about 10 periods of work, can be chosen with the approval of the teacher.

CLASS-XII 44. BIOLOGY

Time: 3 Hrs

Theory: 70 Marks
Practical: 20 Marks
C.C.E.: 10 Marks

Total: 100 Marks

STRUCTURE OF QUESTION PAPER (THEORY)

- 1 There will be one theory paper comprising of 26 questions.
- 2 Question no. 1 to 8 will be of one mark each and all are compulsory.
- 3 Question no. 9 to 16 will be of two marks each and all are compulsory.
- 4 Question no.17 to 23 will be of four marks each. Question no. 17 to 21 are compulsory (one question from each unit) There will be 100% internal choice in question no 22 & 23. Q no.22 will be from unit III and Q no. 23 will be from unit IV and all are compulsory.
- 5 Question no.24 to 26 are of six marks each. There will be 100% internal choice in these questions.
- 6 Distribution of marks over different dimensions of the paper will be as follows.

LEARNING OUTCOMES	MARKS	PERCENTAGE OF MARKS
KNOWLEDGE	25	36%
UNDERSTANDING	31	44%
APPLICATION	14	20%
Total	70	100%

Out of eight one mark questions, 4 questions can be of the objective type such as Yes/No, tick/cross, fill in the blanks, multiple choice, true/false etc.Other four should be of statement type.

UNIT WISE DISTRIBUTION OF MARKS

Unit	Title	Marks
I	Reproduction	14
II	Genetics & Evolution	16
III	Biology and Human Welfare	13
IV	Biotechnology and its applications	13
V	Ecology and Environment	14
	Total Marks	70

SCHEMATIC DISTRIBUTION OF MARKS

Unit	1 mark questions	2 marks questions	4 mark questions	6 mark questions	Total marks
Unit-I	2	1	1	1	14
Unit-II	2	2	1	1	16
Unit-III	1	2	1+1or 1	-	13
Unit-IV	1	2	1+1or 1	-	13
Unit-V	2	1	1	1	14
Total Questions	8	8	7	3	26
Total Marks	8	16	28	18	70

INSTRUCTIONS FOR PAPER SETTER

Note:

- 1. There will be one theory paper of total 26 questions. The paper setter will set questions according to schematic distributions of marks as given in the table.
- 2. Questions no.1 to 8 are compulsory and are of one mark each.
- 3. Question no 9-16 are compulsory and are of two marks each.
- 4. Questions no. 17-23 are of four marks each. Question no 17 to 21 are compulsory and there should be one question from each unit. Wheres question no 22 and 23 will have 100% internal choice. The paper setter will set question no 22 from unit-III and question no 23 from unit IV. Internal choice questions should be from same units.
- 5. Question No.24 to 26 are of six marks each and there is 100% internal choice in these questions.
- 6. Questions in the paper can be asked only from mentioned PSEB syllabus.
- 7. Questions in all 3 sets must be of equal standard and difficulty level.
- 8. At the end of each question, paper setter must write detailed distribution of marks of each sub-question.
- 9. Vague, questions with confusing answers and questions with many possible answers, will not be asked in the paper. In one mark questions, answer should be of one word or one line only.
- 10. Language used should be clearly understood & specific.
- 11. Time and length limit of paper should be kept in mind.

SYLLABUS (THEORY)

I. Reproduction

Reproduction in organisms: Reproduction, a characteristic feature of all organism for continuation of species; Modes of reproduction-Asexual and sexual reproduction; Modes –Binary fission, sporulation, budding, gemmule, fragmentation; vegetative propagation in plants.

Sexual reproduction in flowering plants: Flower structure; Development of male and female gametophytes; Pollination-types, agencies and examples; Outbreedings devices; Pollen-Pistil interaction; Double fertilization; Post fertilization events-Development of endosperm and embryo, Development of seed and formation of fruit; Special modes-apomixis, parthenocarpy, polyembryony; Significance of seed and fruit formation.

Human Reproduction: Male and female reproductive systems; Microscopic anatomy of testis and ovary; Gametogenesis-spermatogenesis & oogenesis; Menstrual cycle; Fertilisation, embryo development upto blastocyst formation, implantation; Pregnancy and placenta formation (Elementary idea); Parturition (Elementary idea); Lactation (Elementary idea).

Reproductive health: Need for reproductive health and prevention of sexually transmitted diseases (STD); Birth control – Need and Methods, Contraception and Medical Termination of Pregnancy (MTP); Amniocentesis; Infertility and assisted reproductive technologies-IVF, ZIFT, GIFT (Elementary ides for general awareness).

II. Genetics and Evolution

Heredity and variation: Mendelian Inheritance; Deviations from Mendelism-Incomplete dominance, Co-dominance, Multiple alleles and Inheritance of blood groups, Pleiotropy; Elementary idea of polygenic inheritance; Chromosome theory of inheritance; Chromosomes and genes; Sex determination-In humans, birds, honey bee; Linkage and crossing over; Sex linked inheritance – Haemophilia, Colour blindness; Mendelian disorders in humans- Thalassemia; Chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes.

Molecular Basis of Inheritance: Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central dogma; Transcription, genetic code, translation; Gene expression and regulation- Lac Operon; Genome and human genome project; DNA finger printing.

Evolution: Origin of life; Biological evolution and evidences for biological evolution (Paleontological, Comparative anatomy, embryology and molecular evidence); Darwin's contribution, Modern Synthetic theory of Evolution; Mechanism of evolution-Variation (Mutation and Recombination) and Natural Selection with examples, types of natural selection; Gene flow and genetic dirft; Hardy-Weinberg's principle; Adaptive Radiation; Human evolution.

III. Biology and Human Welfare

Health and Disease: Pathogens; parasites causing human diseases (Malaria, Filariasis, Ascariasis, Typhoid, Pneumonia, common cold, amoebiasis, ring worm); Basic concepts of immunology-vaccines; Cancer, HIV and AID's; Adolescence, drug and alcochol abuse.

Improvement in food production: plant breeding, tissues culture, sigle cell protein, Bifortification, Apiculture and animal husbandary.

Microbes in human welfare: In household food processing, industrial production, sewage treatment, energy generation and as biocontrol agents and biofertilizers.

IV. Biotechnology and its applications

Principles and process of Biotechnology: Genetic engineering (Recombinant DNA technology).

Application of Biotechnology in health and agriculture: Human insulin and vaccine production, gene therapy; genetically modified organisms- Bt crops; Transgenic Animals; Biosafety issues-Biopiracy and patents.

V. Ecology and environment

Organisms and environment: Habitat and niche; Population and ecological adaptations; Population interactions-mutualism, competition, predation, parasitism; Population attributes-growth, birth rate and death rate, age distribution.

Ecosystems: Patterns, components; productivity and decompositions; Energy flow; Pyramids of number, biomass, energy; Nutrients cycling (carbon and phosphorous); Ecological succession; Ecological Services-Carbon fixation, pollination, oxygen release.

Biodiversity and its conversation: Concepts of Biodiversity; Patterns of Biodiversity; Importance of Biodiversity; Loss of Biodiversity; Biodiversity conservation; Hotspots, endangered organisms, extinction, Red Data Book, biosphere reserves, National parks and sanctuaries.

Environmental issues: Air pollution and its control; Water pollution and its control; Agrochemicals and their effects; Solid waste management; Radioactive waste management; Greenhouse effect and global warming; Ozone depletion; Deforestation; Any three case studies as success stories addressing environmental issues.

BIOLOGY STRUCTURE OF QUESTION PAPER (PRACTICAL) hrs. Total 20: Marks

Experiment and Spotting
 Record of one investigatory and Viva based on the project
 Class record and Viva based on experiments
 Total

SYLLABUS (PRACTICAL)

1. Study of pollen grains on a slide.

Time: 3.00 hrs.

- 2. Study of flowers adapted to pollination by different agencies (wind, insect)
- 3. Study of pollen germination on a slide.
- 4. Study and identify stages of gamete development i.e. T.S of testis and T.S of ovary through permanent slides.
- 5. Study meiosis in Onion bud cell or grasshopper testis through permanent slides.
- 6. Study of T.S of blastula through permanent slide.
- 7. Study mendelian inheritance using seeds of different colour/size of any plant.
- 8. Study prepared pedigree charts of genetic traits such as rolling of tongue, blood groups, window's peak, colour blindness.
- 9. Exercise on controlled pollination -Emasculation, tagging and bagging.
- 10. Study analogous and homologous organs in various plants and animals.

- 11. Collect and study soil from different sites and study them for texture and moisture content.
- 12. Study the pH and water holding capacity of soil correlate with the kinds of plants found in them.
- 13. Collect water from different water bodies around you and study them for pH clarity and presence of any living organisms.
- 14. Study the presence of any suspended particulate matter in air at the two widely different sites.
- 15. Study of plant population density by quadratic method.
- 16. Study of plant population frequency by quadrate method.
- 17. Study of plants and animals found in xerophytes conditions. Comment upon their adaptation ecosystem.
- 18. Study plants and animals found in aquatic conditions. Comment upon their adaptation ecosystem.
- 19. To identify common disease causing organnisms like Ascaris, Endameba, Plasmodium, ringworm. Comment on symptoms of diseases that they cause through permanent slides or specious.

Information Sources.

Analysis using Bioinformatics, tools.

PRACTICAL

Time: 3 Hours Marks: 20

List of Experiments

Bacterial transformation using any plasmid.

Multiplication of tobacco by nodal bulb culture.

Data retrieval and database search using internet site NCBI.

Production and estimation of ethanol from microbial culture.

Determination of LCG in Urine (Pregnancy Test).

Isolation of bacterial plasmid DNA and its detection by gel electrophoresis.

Restriction digestion of plasmid DNA and its analysis by gel electrophoresis.

Download a DNA and protein sequence from internal, analysis and comment on it.

Determination of N-terminal of a protein.

Ion-exchange chromatography for proteins.

Reading of DNA sequencing to get and arrive at the sequence.

Project work.

Note:- The subtopics which are printed in the books published by Punjab School Education Board but are not mentioned in syllabus, should be considered as part of syllabus.

CLASS-XII 45. COMPUTER APPLICATION Instructions (Theory Paper)

Time: 3 hours Theory: 60 Marks

CCE: 10 Marks Practical: 30 Marks

Structure of Question Paper

1. There will be four sections of Question Paper (Part- A, Part- B, Part- C and Part- D).

- 2. In Part- A, there will be 6 objective type question from Question No. 1 to 6, each question will be of one marks each.
- 3. In Part -B ,there will be 6 Questions from Question no. 7 to 12, each questions will be of two marks.
- 4. In Part -C ,there will be 6 Questions from Question no. 13 to 18, each questions will be of four marks.
- 5. In Part –D, there will be three questions from Question no. 19 to 21, each question will be of 6 marks.
- 6. All questions of Part-A , Part-B, Part-C and Part-D are compulsory. However internal choice may be given in part-D.

Sr. No	Chapter	Total Marks	marks 1 question	Marks 2 question	Marks 4 question	marks 6 question
1.	Introduction to C++	7	1	1	1	
2.	Data types variables and constant	7	1	1	1	
3.	Control statements	7	1			1
4.	Functions	6		1	1	
5.	Arrays	6		1	1	
6.	Classes and Objects	7	1	1	1	
7.	Constructor , Destructor and function overloading	6		1	1	
8.	Inheritance	7	1			1
9.	Information Technology	7	1			1
	Total Marks	6●	6	12	24	18

Lesson 1: Introduction to C ++

- 1.1 Introduction to Object Orientation
- 1.2 Difference between Structured & Object Oriented Language
- 1.3 Introduction to C ++
- 1.4 Program Structure
- 1.5 Program Design & Implementation Issues
- 1.6 Character set of C++
- 1.7 C++ Basic Elements
- 1.8 Structure of a Program
- 1.9 What is meant by an Object?

Lesson 2: Data Types Variables and Constants

- 2.1 Concepts of Data Types
- 2.2 Data Types Modifiers
- 2.3 Constants
- 2.4 String Literals
- 2.5 Variables
- 2.6 Operators in C++

- 2.7 Expressions and Statements
- 2.8 Conditional Expression
- 2.9 Operators Precedence in C++

Lesson3: Control Statements

- 3.1 Conditional Statements
- 3.2 Selection Statements: if and else
- 3.3 Nested if (Nested blocks)
- 3.4 Another selection statements: switch.
- 3.5 Jump statement
- 3.6 The break statement
- 3.7 The continue statement
- 3.8 The goto statement
- 3.9 Exit() Function
- 3.10 Iteration Statement (C++)
- 3.11 Loop & Nested Loops
- 3.12 Console I/O functions
- 3.13 Header Files

Lesson 4 Functions

- 4.1 Definition of function
- 4.2 Function Prototype
- 4.3 Objective of using function prototype
- 4.4 Accessing a function
- 4.5 Passing argument to a function
- 4.6 Default values for Parameters:
- 4.7 THE const ARGUMENT
- 4.8 C++ function call by value
- 4.9 C++ function call by reference
- 4.10 Parameter pass by reference
- 4.11 Return statement
- 4.12 Passing Arrays as Function Arguments in C++
- 4.13 C++ Variable Scope
- 4.14 Local Variables

Lesson 5 Arrays

- 5.1 Declaring Arrays
- 5.2 One Dimensional Array
- 5.3 Nature of subscript
- 5.4 Multidimensional Array
- 5.5 Two-Dimensional Arrays
- 5.6 Arrays of strings

Lesson 6: Classes and Objects

- 6.1 Classes
- 6.2 Access specifiers and default labels
- 6.3 Scope of class & its members
- 6.4 Member functions
- 6.5 Data hiding & encapsulation
- 6.6 Inline Functions
- 6.7 Nesting of Member Functions
- 6.7 Nesting of Member Functions
- 6.8 Arrays within a class
- 6.9 Static Function Members

Lesson 7: Constructors, Destructors and Function Overloading

- 7.1 Need for Constructors
- 7.2 Default Constructors
- 7.3 Parameterized Constructor:

- 7.4 Default Copy Constructor
- 7.5 Dynamic Initialization Using Constructors
- 7.6 The Class Destructor:
- 7.7 Function overloading in C++
- 7.8 Steps involved in finding the best match

Lesson 8: Inheritance

- 8.1 Inheritance: Extending Classes
- 8.2 Need for Inheritance
- 8.3 Defining Derived Class
- 8.4 Different Forms of Inheritance
- 8.5 Visibility Modes
- 8.6 Inherit private members of base class

Lesson 9: Information Technology

- 9.1 Introduction
- 9.2 Computer Networks
- 9.3 Network Topology
- 9.4 Advantages & Disadvantages of Network
- 9.5 Data Communication
- 9.6 Transmission Channel
- 9.7 Types of Networks

PRACTICAL

Time: 3 hrs Marks: 30

EVALUATION SCHEME FOR PRACTICAL

1. Programming in C++

There will be 4 questions / Program will be set from which candidate has to attempt any Three program/ Questions. Each Program or Question will be of 5 marks. Mark for the programming are to be given on the basis of program documentation / indentation, algorithm and result (output) $5\times3=15$ Marks

2. **Viva-Voce** 10 Marks

3. Practical record file

5 Marks

Record of at least 20 programs in C++ (with listing and Outputs) based on programming concepts and on data base concepts

SYLLABUS: All the relevant practical exercise will be based upon the relevant chapters mentioned in the Theory Syllabus.

CLASS-XII 46. BUSINESS STUDIES – II (COMMERCE GROUP)

Time: 3 Hrs

Theory: 65 Marks

CCE: 10 Marks

Total: 75 Marks

STRUCTURE OF QUESTION PAPER

- 1. The question paper will cover whole of the syllabus.
- 2. 20 Questions will be set in the question paper.
- 3. All units of the syllabus should be given adequate representation in the question paper.

Section-A

4. Question No. 1 consists of 5 sub parts carrying 1 mark each. Answer of each Part should be given in 1-15 words. Objective type questions may include questions with one word to one sentence answer/fill in the blank/true or false/multiple choice type questions.

Section-B

5. Question No. 2 to 8 will carry 2 marks each. Answer of each question should be given in 5-10 lines.

Section-C

6. Do any 7 question out of 9 questions. Question No. 9 to 17 will carry 4 marks each. Answer of each question should be given in 15-20 lines.

Section-D

7. Question No. 18 to 20 will carry 6 marks each with internal choice. Answer of each question should be given in 3-5 pages. Internal choice question should not be set from the same unit.

Detail of questions set from each unit

		Section-A	Section-B	Section-C	Section-D		
Unit	Name of the unit	1 mark	2marks	4marks	6marks		
No.		question	question	question	question		
1.	Nature & Significance of	1	1	1	(i) 1Q. from units		
	Management				1,2,3,4 with		
2.	Principles of Management	1			internal choice not		
3.	Business Environment		1	1	from same unit.		
4.	Planning						
5.	Organisation	1	1	1	(ii) 1Q. from units		
6.	Staffing				5,6,7,8 and 9 with		
7.	Directing		1	1	internal choice not		
8.	Coordination	1	1	1	from same unit.		
9.	Controlling						
10.	Business Finance	1	1	1	(iii) 1Q. from units		
11.	Financial Markets				10,11,12,13,14 with		
12.	Marketing			2	internal choice not		
13.	Consumer Protection		1	1	from same unit.		
14.	Entrepreneurship						
	Development						
	Total	05	07	09			

SYLLABUS

PRINCIPLES AND FUNCTIONS OF MANAGEMENT

UNIT-1: NATURE AND SIGNIFICANCE OF MANAGEMENT.

- (a) Management Concept, Objectives and Importance.
- (b) Management as an Activity, Process, Discipline and as a Group.
- (c) Nature of Management as a Science, as an Art and as a Profession.
- (d) Management and Administration Comparison.
- (e) Level of Management-Top, Middle & Supervisory.
- (f) Management Function-Planning, Organizing, Staffing, Directing Coordinating and Controlling.

UNIT-2: PRINCIPLES OF MANAGEMENT

- (a) Principles of Management: Meaning, Nature & Significance.
- (b) Fayol's Principles of Management.
- (c) Taylor's Scientific Management-Principles & Techniques.

UNIT-3: BUSINESS ENVIRONMENT

- (a) Business Environment Meaning & Importance.
- (b) Dimensions of Business Environment-Political, Economic, Social Legal and Technological.
- (c) Economic Environment in India, Impact of Govt. Policy changes on business & industry with Refrence to Liberalization, Privatization and Globalization (since 1991).

UNIT-4: PLANNING

- (a) Meaning, Features, Process, Importance & Limitations.
- (b) Goals, Objectives, Policy, Procedures, Strategy, Methods, Rules, Budgets and Programmes-Meaning and Distinction.

UNIT-5: ORGANISATION

- (a) Meaning and Importance
- (b) Process of Organizing
- (c) Types of Organization: Formal, Informal, Line Organization, Line & staff and Functional Organization.
- (d) Delegation: Meaning, Elements and Importance, Barriers in the way of delegation, Step to make delegation effective.
- (e) Decentralization: Meaning and Importance
- (f) Difference between Centralization and Decentralization.
- (g) Difference between Delegation and Decentralization.

UNIT-6: STAFFING

- (a) Staffing: Meaning, Need and Importance
- (b) Steps in Staffing Process:
 - (i) Recruitment: Meaning and Sources.
 - (ii) Selection: Meaning and Process.
 - (iii) Training & Development: Meaning, Need, Types and Methods.
- (c) Methods of Wage Payment: Time Rate & Price Rate.
- (d) Types of Compensation and Incentives: Monetary &Non Monetary.

UNIT-7: DIRECTING

- (a) Directing: Meaning and Importance.
- (b) Elements of Direction:
 - i. Supervision: Meaning and Importance
 - ii. Motivation: Meaning and Importance, Maslow's hierarchy of needs: Financial & Non-Financial Incentives.
 - iii. Leadership: Meaning, Importance, Quality of a good leader.
 - iv. Communication: Meaning and Importance, Types of Communication and Barriers to Effective Communication.

UNIT-8: COORDINATION

Coordination: Meaning, Nature & Importance.

UNIT-9: CONTROLLING

- (a) Controlling: Meaning and Importance.
- (b) Relationship between Planning and Controlling.
- (c) Steps in the process of Control.

BUSINESS FINANCE AND MARKETING

UNIT-10: BUSINESS FINANCE

- (a) Meaning and Objectives of Finance Functions, Profit Maximization vs Wealth Maximization.
- (b) Financial Planning: Meaning & Importance
- (c) Capital Structure: Meaning & Factors
- (d) Working Capital: Meaning, Importance, Types & Factors affecting its requirements.

UNIT-11: FINANCIAL MARKETS

- (a) Concept of Financial Market: Money Market-Nature, Instruments.
- (b) Capital Market: Nature, and Types-Primary and Secondary Market.
- (c) Distinction between Capital Market and Money Markets.
- (d) Stock Exchange; Meaning, Functions, NSEI, OCTEI, Training Procedure.
- (e) Securities and Exchange Board of India (SEBI): Objectives and Functions.

UNIT-12: MARKETING

- (a) Marketing: Meaning, Function & Role.
- (b) Distinction between Marketing & Selling.
- (c) Marketing Mix: Concept & Elements-
 - (i) Product: Nature, Classification, Branding, Labeling and Packaging.
 - (ii) Physical Distribution: Meaning, Role, Channels of Distribution:
 Meaning, Types, Factors determining choice of channel.
 - (iii) Promotion: Meaning and Role, Promotion Mix, Role of Advertising and Personal Selling, Objectives of Advertising.
 - (iv) Price: Factors influencing Pricing.

UNIT-13: CONSUMER PROTECTION

- (a) Importance of Consumer Protection,
- (b) Consumer Rights.
- (c) Consumer Responsibilities.
- (d) Ways and Means of Consumer Protection: Consumer Awareness and legal redressal with special reference to Consumer Protection Act 1986.
- (e) Role of Consumer Organization and NGO's.

UNIT-14 ENTREPRENEURSHIP DEVELOPMENT

- (a) Entrepreneurship: Concept, Characteristics, Needs and Functions.
- (b) Process of Entrepreneurship Development.
- (c) Entrepreneurial Values, Attitudes and Motivation: Meaning & Concept.

CLASS-XII 47. ACCOUNTANCY-II (COMMERCE GROUP)

Time: 3 Hrs Theory: 50 Marks

Project work/ Practical: 15 Marks

CCE: 10 Marks Total: 75 Marks

STRUCTURE OF QUESTION PAPER (THEORY)

1. The question paper will cover whole of the syllabus.

- 2. There are 3 sections in the question paper i.e. Section A, Section B and Section C. Section A is compulsory for all the students and students may choose only one section from Section B and Section C. Section A, Section B and Section C will be set from the Part-I and Part-III and Part-III of the syllabus respectively.
- 3. 12 Questions will be set in the question paper.
- 4. All units of the syllabus should be given adequate representation in the question paper.
- 5. There is no word, line or page limit for numerical questions.
- 6. The use of non-programmable simple calculator is allowed.

SECTION-A

7. Question No. 1 consists of 3 sub parts (1a to 1c) carrying 1 mark each. Answer of each Part should be given in 1-15 words. Objective type questions may include questions with one word to one sentence answer/fill in the blank/true or false/multiple choice type questions. Question No. 2 to 5 (Out of which 2 will be theoretical and two will be numerical) will carry 2 marks each. Answer of theoretical question should be given in 5-10 lines.

Question No. 6 consists of 4 sub parts (i,ii,iii,iv) out of which two will be numerical and two will be theoretical (Attempt any three questions out of four) Each question will carry 4 marks. Answer of theoretical question should be given in 15-20 lines.

Question No.7 will be numerical with numerical question as internal choice. This question will be set from any of the first four unit (unit1, 2, 3 and 4) and will carry 6 marks. Internal choice question will not be set from the same unit.

SECTION B AND C

8. In Question No. 8 consists of 3 sub parts (8a to 8c) carrying 1 mark each. Answer of each Part should be given in 1-15 words. Objective type questions may include questions with one word to one sentence answer/fill in the blank/true or false/multiple choice type questions. Question No. 9 and 10 (Out of which one will be theoretical and one numerical) will carry 2 marks each. Answer of theoretical question should be given in 5-10 lines.

Question No. 11 consists of 3 sub parts (i, ii, ii) out of which 2 will be numerical and one theortical (Attempt any two questions out of three).

Each question will be 4 marks. Answer of theoretical question should be given in 15-20 lines.

Question No. 12 with internal choice between theoretical and numerical questions will be set out of units 5,6,7 and 8 and will carry 6 marks. Internal choice question will not be set from the same unit. Answer of theoretical question should be given in 3-4 pages of answer book.

Detail of questions set from each unit

Unit No.	Name of the unit	1mark questions	2 marks questions	4 marks question	6marks questions
1101	Section A (Part-I)		, -	<u> </u>	_1-
1.	Accounting for not for profit organization	1	1	1	1 numerical
2.	Accounting for partnership		1	1	question from
3.	Reconstitution or partnership	2	1	1	units 1,2,3,4 with
4.	Dissolution of partnership firm		1	1	numerical question as internal choice not from same unit.
	Section B (Part-II)	<u>I</u>	<u> </u>		
5.	Accounting for share capital & debentures	1	1	1	1 numerical question from
6.	Analysis of financial statements	1	1	1	units 5,6,7 and 8 with
7.	Statement of changes in financial position	1	1	1	theoretical question as internal choice not from same unit.
	OR Section C (Part-III)	•	•		
5.	Overview of computerized accounting system	1	1	1	1 numerical question from
6.	Using computerized accounting system			1	units 5,6,7 and 8 with theoretical
7.	Accounting using DBMS	1			question as
8.	Accounting application of electronic spread sheet	1	1	1	internal choice not from same unit.

SYLLABUS (THEORY) PART-I

UNIT 1: ACCOUNTING FOR NOT-FOR-PROFIT ORGANIZATION.

- 1. Meaning, Basic Concepts
- 2. Receipts and Payments: Meaning and Concept of Fund Based and Non Fund Based Accounting
- 3. Prepration of Income and Expenditure Account and Balance Sheet from Receipt and Payment Account with additional information.

UNIT 2: ACCOUNTING FOR PARTNERSHIP

- 2. Nature of Partnership Firm, Partnership Deed (Meaning and Importance)
- 3. Final Accounts of Partnership: Fixed v/s Fluctuating Capital, Division of Profit among Partners (excluding guarantee and past adjustments). Preparation of Profit and Loss Appropriation Account

UNIT 3: RECONSTITUTION OF PARTNERSHIP

- 1. Change in Profit Sharing Ratio among the existing Partners- Sacrificing Ratio and Gaining Ratio
- 2. Accounting for Revaluation of Assets and Liabilities and Distribution of Reserves and Accumulated Profits
- 3. Goodwill: Meaning, Nature, Factors affecting and Methods of Valuation. Average Profits, Super Profits and Capitalization Methods types of goodwill.
- 4. Admission of a Partner:- Effect of Admission of Partner, Change in Profit Sharing Ratio, Accounting Treatment of Goodwill (as per accounting standard 10). Revaluation of Assets and Liabilities, Reserves (Accumulated profits) and Adjustment of Capitals
- 5. Retirement/Death of a Partner: Change in Profit Sharing Ratio, Accounting Treatment of Goodwill, Revaluation of Assets and Liabilities, Treatment of Accumulated Profits (Reserve), Adjustment of continuing P.capitals, Payment to Retiring Partner/ Deceased Partners.

UNIT 4: DISSOLUTION OF PARTNERSHIP FIRM

Meaning and Various Modes of Dissolution of Partnership Firm, Settlement of Accounts. Preparation of Realization Account and Related Accounts (excluding Piece Meal Distribution, Sale to a Company and Insolvency of a Partner).

NOTE: Students may choose only one Part from Part II and Part III. PART -II

UNIT-5: ACCOUNTING FOR SHARE CAPITAL AND DEBENTURES

- 1. Share Capital: Meaning, Nature and Types
- 2. Accounting for Share Capital: Issue and Allotment of Equity and Prefer Shares, Over Subscription and under Subscription, Issue at Par Securities Premium and Calls in Advance, Calls in Arrears, Issue of Shares for Consideration other than cash.
- 3. Forfeiture of Shares:- Accounting Treatment, Reissue of Forfeited Shares.
- 4. Presentation of Share and Debenture, Capital in Company's Balance Sheet
- 5. Issue of Debentures:- Meaning, Types of Debentures, Issue at Par, Premium and Discount, Issue of Debentures for Consideration other than cash, Debenture Issues as Collateral Security.
- 6. Redemption of Debentures:- Out of proceeds of fresh issue, Accumulated Profits and Sinking Fund.

UNIT 6: ANALYSIS OF FINANCIAL STATEMENTS

- 1. Financial Statement of Company:- Balance Sheet of a Company in the prescribed form with major heading only (schedule VI)
- 2. Financial Analysis:- Meaning, Significance and Purpose, Limitations.
- 3. Tools for Financial Analysis:- Comparative Statements, Common Size Statement and Trend Analysis.
- 4. Accounting Ratio:- Meaning, Objectives and Types of Ratios:
 - (a) Liquidity Ratio :- Current Ratio, Liquidity Ratio.
 - (b) Solvency Ratio :- Debt to Equity, Total Assets to Debt, Proprietary Ratio.
 - (c) Activity Ratio: Inventory Turnover, Debtors Turnover, Creditors
 Turnover, Working Capital Turnover, Fixed Assets Turnover,
 Currents Assets Turnover.
 - (d) Profitability Ratio:- Gross Profit, Operating Profit Ratio, Net Profit Ratio, Return on Investment, Earning Per Share Dividend Per Share, Price Earning Ratio.

UNIT 7: STATEMENT OF CHANGES IN FINANCIAL POSITION

Cash Flow Statement:- Meaning and Objectives, Preparation, Adjustments related to Depreciation, Dividend, Tax, Purchase and Sale of non current assets (as per revised standard issued by ICAI)

OR

PART-III

COMPUTERISED ACCOUNTING SYSTEM

UNIT 5: OVERVIEW OF COMPUTERIZED ACCOUNTING SYSTEM

- 4. Concepts and Types of Computerized Accounting System(CAS)
- 5. Features of a Computerized Accounting System
- 6. Structure of a Computerized Accounting System

UNIT 6: USING COMPUTERIZED ACCOUNTING SYSTEM

- 4. Steps in installation of CAS, preparation of chart of accounts, codification and hierarchy of account heads.
- 5. Data Entry, Data Validation and Data Verification.
- 6. Adjustment Entries, Preparation of Financial Statements, Closing Entries and Opening Entries.
- 7. Security of CAS and security features generally available in CAS (Students are expected to understand and practice the entire accounting process using an accounting package).

UNIT 7: ACCOUNTING USING DATA BASE MANAGEMENT SYSTEM(DBMS)

- 1. Concepts of DBMS.
- 2. Objective in DBMS: Tables, Queries, Forms, Reports.
- 3. Creating Data Tables for Accounting

4. Using queries, forms and reports for generating accounting information, Applications of DBMS in generating accounting information such as shareholders records, sale reports, customers profile, suppliers profile payroll, employees' profile and petty cash register.

UNIT 8: ACCOUNTING APPLICATION OF ELECTRONIC SPREAD SHEET

- Concept of an Electronic Spread Sheet (ES).
- 2. Features offered by Electronic Spread Sheet.
- 3. Applications of Electronic Spread Sheet in generating Accounting Information,

Preparing Depreciation Schedule, Loan Repayment Schedule, Payroll Accounting and other such applications.

Project work

Project work is for those students who choose Part-II of the syllabus.

Time: 1 ½ Hours Max Marks 15

- 1. The syllabus of project work is same as prescribed for the theory paper i.e. Part I and Part II.
- 2. Project Note book will consist of at least one comprehensive project and some short answer questions based on the prescribed syllabus.
- 3. Division of Marks:

Project Note Book

3 marks

Total five questions of 3 marks each will be set.

The students are required to attempt any three (3×3) 9 marks

Viva Voce

3 marks

Practical

Practical is for those students who choose Part-III of the syllabus. Time: 1 ½ Hours Max Marks 15

- 1. The syllabus of project work is same as prescribed for the theory paper of part-III.
- 2. Practical Note book will consist of the entire practical performed in the computer laboratory based on the prescribed syllabus.
- 3. Division of Marks:

Practical Note Book

3 marks

The students are required to perform any two

practical out of the given four of 4 marks each.

(2×4) 8 marks

Viva Voce

4 marks

CLASS-XII

48. BUSINESS ECONOMICS & QUANTITATIVE METHODS - II (COMMERCE GROUP)

Time: 3 Hrs

Theory: 65 Marks

CCE: 10 Marks Total: 75 Marks

STRUCTURE OF QUESTION PAPER

- 1. The question paper will cover whole of the syllabus.
- 2. 24 Questions will be set in the question paper. Student will have to attempt 22 questions.
- 3. All units of the syllabus should be given adequate representation in the question paper.

Section-A

4. Question No. 1 consists of 5 sub parts carrying 1 mark each. Answer of each part should be given in 1-15 words. Objective type questions may include questions with one word or one sentence answer/fill in the blanks/multiple choice type questions/ true and false.

Section-B

5. Question No. 2 to 8 will carry 2 marks each. Answer of each question should be given in 5-10 lines.

Section-C

6. Question No. 9 to 17 will carry 4 marks each. Out of 9 questions 4 questions will be numerical and 4 questions will be theoretical. One question can be either theoretical. Do any 7 question out of 9 questions. Answer of thoery question should be given in 15-20 lines.

Section-D

- 7. Question No. 18 to 20 will carry 6 marks each with internal choice. Answer of each question should be given in 3-5 pages. Internal choice question should not be set from the same unit.
- 8. There is no word, line or page limit for numerical questions.
- 9. The use of non-programmable simple calculator is allowed.

DETAIL OF QUESTIONS SET FROM EACH UNIT

		Section-A	Section-B	Section-C	Section-D
Syllabus	Units	1 Mark	2 Marks	4 Marks	6 Marks
		Questions	Questions	Question	Questions
PART - I	1		1(T)	1(P)	i) 1 numerical question
Business		1			from units 1-4 with
Statistics	2		1(P)	1(P)	numerical question as
					internal choice not from
	3		1(T)	1(P)	same unit.
	1	1	1 (T)	1 (D)	ii) 1 theoretical quantier
	4		1(P)	1(P)	ii) 1 theoretical question from units 5-9 with
	5	1	1(T)	1(P or T)	theoretical question as
		1	1(1)	1(1 01 1)	internal choice not from
PART – II	6		1(P)	1(T)	same unit.
Introductory			. ,	, ,	J
	7	1	1(T)	1(T)	iii) 1 numerical
Macro					question from part-I with internal choice of
Economics					theoretical question
					from part II
	8			1 (T\	
	0	1		1(T)	
	9	1		1(T)	-
Total questions		5	7	7out of 9	3

SYLLABUS PART-I

BUSINESS STATISTICS

UNIT 1. MEASURES OF CENTRAL TENDENCY

- (i) Arithmetic Mean (Simple and weighted)
- (ii) Median and Mode

UNIT 2. MEASURES OF DISPERSION AND SKEWNESS

A. Measures of Dispersion

- i. Range, Quartile, Decile, Percentile and Quartile Deviation.
- ii. Mean Deviation, Standard Deviation and Coefficient of Variation.

B. Measures of Skewness

- (i) Meaning of Measures of Skewness.
- (ii) Difference between Dispersion &Skewness.
- (iii) Measures of Skewness.
 - a) Absolute Measures
 - b) Relative Measures & Coefficient of Skewness
 - (i) Bowley's Coefficient of Skewness
 - (ii) Kelly's Coefficient of Skewness
 - (iii) Karl Pearson's Cofficient of Skewness

UNIT 3. INDEX NUMBER

- (i) Meaning, Features, Uses and Problems of Construction of Index Number.
- (ii) Methods of Construction of Index Number, Cost of Living Index Numbers, Choice of base for Computing Index Numbers, Base Shifting.

UNIT 4. CORRELATION & REGRESSION ANALYSIS

A CORRELATION

- (i) Meaning, Significance, Cause and Effect Relationship. Types of Correlation.
- (ii) Methods of Correlation:
 - a) Scattered Diagram,
 - b) Graphic Method
 - c) Karl Pearson's Coefficient of Correlation,
 - d) Spearman's Rank Correlation Coefficient
 - e) Concurrent Deviation Method.
- (iii) Probable error, Standard error and Coefficient of Determination.

B REGRESSION ANALYSIS

- (i) Meaning, Uses of Regression Analysis, Relationship between Correlation and Regression analysis
- (ii) Regression Lines

- (iii) Preparation of Regression quotient
- (iv) Standard errors of estimation and Limitation of Regression analysis.

PART-II

INTRODUCTORY MACROECONOMICS

UNIT 5. NATIONAL INCOME AND RELATED AGGREGATES.

- (i) Basic Concepts: Consumption Goods, Capital Goods, Final Goods, Intermediate Goods; Stocks and flows; Gross Investment and Depreciation.
- (ii) Circular Flow of Income, Measurement of National Income-Value Added Method, Income Method and Expenditure Method.
- (iii) Aggregates related to National Income GDP (Gross
 Domestic Product), GNP (Gross National Product), NDP
 (Net Domestic Product), NNP (Net National Product), (At
 Market Price and Factor Cost) National Disposable Income
 (Gross and Net) Private Income, Personal Income and
 Personal Disposable Income, Real and Nominal GDP.
- (iv) GDP and Welfare

UNIT 6 DETERMINATION OF INCOME AND EMPLOYMENT.

- (i) Aggregate Demand, Aggregate Supply and their Components.
- (ii) Propensity to Consume and Propensity to Save (Average and Marginal)
- (iii) Meaning of Involuntary Unemployment and Full Employment.
- (iv) Determination of Income and Employment-Two Sector Model.
- (v) Concept of Investment Multiplier and its working.
- (vi) Problems of Excess and Deficient Demand.
- (vii) Measures to correct Excess & Deficient Demand,
 Availability of Credit, Change in Govt. spending.

UNIT 7 MONEY AND BANKING

- (i) Money- Meaning, Evolution and Functions.
- (ii) Supply of Money Currency held by the Public and Net Demand Deposits held by Commercial Banks.
- (iii) Central Bank- Meaning and Functions (example of Reserve Bank of India): Bank of Issue, Government Bank,
 Bankers Banks, Controller of Credit CRR, SLR, Reverse
 Repo, Open Marker Operation, Margin Requirement.
- (iv) Commercial Banks- Meaning and Functions.

Unit 8 GOVERNMENT BUDGET AND THE ECONOMY

- (i) Government Budget- Meaning, Components and Objectives.
- (ii) Classification of Receipts- Revenue Receipts and Capital Receipts.
- (iii) Classification of Expenditure-Revenue Expenditure and Capital Expenditure.
- (iv) Balanced Budget-Surplus Budget and Deficit Budget; Meaning and Implications.
- (v) Revenue Deficit, Fiscal Deficit and Primary Deficit;Meaning and Implications; Measures to correct different Deficits.

Unit-9 BALANCE OF PAYMENTS

- (i) Balance of Payment Accounts-Meaning and Components.
- (ii) Balance of Payments Deficit -- Meaning.
- (iii) Foreign Exchange Rate- Meaning (Flexible and Fixed), Merits and Demerits, Determination through Demand and Supply.
- (iv) Determination of Exchange Rate in a Free Market.

CLASS-XII 49. FUNDAMENTAL OF E-BUSINESS (COMMERCE GROUP)

Time: 3 Hrs Theory: 50 Marks

CCE: 10 Marks Practical: 15 Marks Total: 75 Marks

STRUCTURE OF QUESTION PAPER

1. The Question Paper will cover whole of the Syllabus.

- 2. 16 Questions will be set in the Question paper. Do any five questions from Section-C.
- 3. All units should be given adequate representation in the question paper.
- 4. The Question paper will have 4 sections i.e. A, B,C & D.

SECTION-A

5. Question No. 1 consists of 6 subparts carrying 1 mark each. Answer of each part should be given in 1-15 words. Objective type questions may include questions with one word or one sentence answer/fill in the blanks/true or false/multiple choice type questions. Three Questions will be set from Part-1 and another three questions will be set from Part-2 of the syllabus.

SECTION-B

6. Question No. 2 to 7 will carry 2 marks each. Two questions (Q.No. 2 and Q.No. 3) will be set from Part-1 and remaining four questions (Q.No. 4 to Q.No.7) will be set from Part-2 of the syllabus. Answer of these questions should be given in 5 to 10 lines.

SECTION-C

7. Question No. 8 to 14 will carry 4 marks each. Attempt total five questions from this section. Attempt any three questions from (Q.No. 8 to Q.No. 11) which will be set from Part -I and attempt any two questions from (Q.No. 12 to Q.No. 14) which will be set from Part-II. Answer of these questions should be given in 15 to 20 lines.

SECTION-D

8. Question No. 15 and 16 will carry 6 marks each with internal choice. Q.No.15 will be set from Units I to II with internal choice and Q.No. 16 will be set from Units III and IV with internal choice. Each question will carry six marks each. Answer of these questions should be given in 3-4 pages of the answer book. Internal choice question will not be set from the same unit.

Unit wise division of the Marks

Unit	Name of the Unit	1 Marks	2 Marks	4 Marks	6 Marks Questions
No.		Questions	questions	Questions	
I	Fundamental of Information	3	2	2	(i)1 question from
	Technology	3	2	2	
II	Introduction to Electronic		1	1	units1,2 and 3 with internal choice not
	Commerce	1	1	1	
III	E-Payments	-	1	1	from same unit
IV	E-Security	1	1	1	(ii) 1 question from
V	E-Banking	1	1	1	units 4,5,6, and 7
VI	E-Trading	1	1	1	with internal choice
VII	E-Marketing		1	1	not from same unit.
Total	Questions	6	6	7	2

Note:

1. Do any five questions out of seven questions of 4 marks from Section-C.

SYLLABUS (THEORY)

Rationale of the Course:

Information technology has great influence on all aspects of our life. All our work places and the living environments are being computerized. In order to prepare students to work in these environments, it is essential that they are exposed to various applications of information technology. One of the important applications of IT is e-business. The term applies to the use of computer network to search and retrieve information in support of human and corporate decision making. It is a modern business methodology that addresses the needs of business organizations, merchants and consumers to out costs while improving the quality of goods and services and increasing the speed of service- delivery. This exposure will enable the students to enter the world with confidence, live in these environments in a harmonious way and contribute to the productivity.

PART -I

UNIT 1: FUNDAMENTALS OF INFORMATION TECHNOLOGY

- 1. Concepts and Scope of IT
- 2. Elements of Computer System: Computer Hardware and Software. Computer Organization.
- 3. CPU: Memory Input Devices, Output Devices, Storage Devices, and Communication Devices, Multimedia Devices
- 4. Introduction to operating system

Introduction to Internet

Concept of Internet, Use of Internet, Requirements of Internet, Internet Domain, Internet Server, establishing connectivity on the Internet, Types of Internet Providers, Constitute of Internet Protocol, Browsing the Internet Tools and Service of Internet, Procedure of opening e-mail account on internet.

PART-II CONCEPTUAL FRAMEWORK OF E-BUISNESS

UNIT 2: INTRODUCTION TO ELECTRONIC COMMERCE

- Meaning, Features, Functions and Benefit of E-Commerce, E-Commerce Practicevs Traditional Practice, Scope and Basic Models of E-Commerce, Limitations of E-Commerce, Precautions for secure E-Commerce, Proxy Services.
- 2. Types of E-Commerce, Meaning of B2C, B2B, C2C & P2P.
- 3. E-Commerce in India: Status of E-Commerce in India, Problems and Opportunity in E- Commerce in India, Future of E-Commerce, Legal issues involved in E-Commerce.

UNIT 3: E-PAYMENTS

Transaction through Internet, Requirements of E-Payment System, Post Paid Payment System, Credit Card Solutions, Cyber Cash Internal Cheques, Instant Paid Payment System, Debit Card, Prepaid Payment System, Electronic Cash, Digi Cash, Net Cash, Cyber Cash, Smart Cards.

UNIT 4: E-SECURITY

Areas of Internet Security, Security Threats, Security Breach Avoidance, Defection and Recovery, Confidentiality and Integrity, Electronic Signature, Access Control, Authentication Precaution for Secure E-Commerce.

UNIT 5: E-BANKING

Meaning, Importance and Types of E-Banking Services. Traditional vs E-Banking, Process of E-Banking, Advantages and Disadvantages of E-Banking, Status of E-Banking in India.

UNIT 6: E- TRADING

Meaning and Importance of E- Trading, Traditional Trading vs E-Trading, Operational Aspects of E-Trading, Advantages of E-Trading, Status of E-Trading in India.

UNIT 7: E-MARKETING

Concept of E- Marketing, 4Ps of E-Marketing, Traditional Marketing vs E-Marketing, Advantages of E-Marketing, Status of E-Marketing in India.

STRUCTURE OF PRACTICAL QUESTION PAPER (PRACTICAL)

Time: 1½ Hours M. Marks: 15

1. Total five questions (two from Part-1 and three from Part-2) of 3 marks each will be set out of list prescribed for practical. The students are required to perform three practicals selecting at least one from each part. **9 marks**

2. Viva Voce 3 marks

3. Project Work 3 marks

SYLLABUS (PRACTICAL) LIST OF PRACTICALS (PART-I)

Internet and its applications:

Log into internet.

Navigation for seeking information.

Downloading information from internet.

PART-II

Sending and receiving e-mail.

- (a) Create e-mail account
- (b) Creating a message
- (c) Creating an address book
- (d) Attaching a file with e-mail
- (e) Receiving a message
- (f) Deleting a message

Purchasing through the net.

On-line banking - Operating an ATM.

CLASS-XII 50. ਖੇਤੀਬਾੜੀ

ਸਮਾਂ : 3 ਘੰਟੇ ਲਿਖਤੀ :70 ਅੰਕ

ਪ੍ਰਯੋਗੀ :20 ਅੰਕ

ਨਿਰੰਤਰ ਸਰਬਪੱਖੀ ਮੁਲਾਂਕਣ:10 ਅੰਕ

ਕੁੱਲ ਅੰਕ:100 ਅੰਕ

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ-ਰੇਖਾ (ਲਿਖਤੀ)

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਨੂੰ ਚਾਰ ਭਾਗਾਂ ਵਿੱਚ ਵੰਡਿਆ ਗਿਆ ਹੈ । ਇਸ ਵਿੱਚ ਕੁੱਲ 28 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ । ਅੰਕਾਂ ਦੀ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹੈ :

- ਭਾਗ ਨੰ. I ਪ੍ਰਸ਼ਨ ਨੰ. 1 ਤੋਂ 10 ਤੱਕ **ਇੱਕ-ਇੱਕ ਅੰਕ** ਵਾਲੇ ਹੋਣਗੇ । ਇਹ ਪ੍ਰਸ਼ਨ **ਬਹੁਤ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ/** ਬਹੁ-ਭਾਂਤੀ ਉੱਤਰਾਂ / ਖ਼ਾਲੀ ਥਾਂ ਭਰੋ / ਸਹੀ ਜਾਂ ਗ਼ਲਤ ਕਥਨ ਚੁਣੋ ਵਾਲੇ ਹੋ ਸਕਦੇ ਹਨ । ਇਹ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨੇ ਲਾਜ਼ਮੀ ਹੋਣਗੇ।
- ਭਾਗ ਨੰ. II ਪ੍ਰਸ਼ਨ ਨੰ. 11 ਤੋਂ 20 ਤੱਕ **ਦੋ-ਦੋ ਅੰਕਾਂ** ਵਾਲੇ ਹੋਣਗੇ ।ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 20–30 ਸ਼ਬਦਾਂ ਵਿੱਚ ਹੋ ਸਕਦਾ ਹੈ ।ਇਹ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨੇ ਲਾਜ਼ਮੀ ਹੋਣਗੇ।
- ਭਾਗ ਨੰ. III ਪ੍ਰਸ਼ਨ ਨੰ. 21 ਤੋਂ 24 ਤੱਕ ਚਾਰ–ਚਾਰ ਅੰਕਾਂ ਵਾਲੇ ਹੋਣਗੇ । ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 80–100 ਸ਼ਬਦਾਂ ਦਾ ਹੋ ਸਕਦਾ ਹੈ । ਇਹ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨੇ ਲਾਜ਼ਮੀ ਹੋਣਗੇ।
- ਭਾਗ ਨੰ. IV ਪ੍ਰਸ਼ਨ ਨੰ. 25 ਤੋਂ 28 ਤੱਕ ਛੇ–ਛੇ ਅੰਕਾਂ ਵਾਲੇ ਹੋਣਗੇ । ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ 120–150 ਸ਼ਬਦਾਂ ਦਾ ਹੋ ਸਕਦਾ ਹੈ । ਇਨ੍ਹਾਂ ਸਾਰੇ ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚ 100% ਅੰਦਰੂਨੀ ਛੋਟ ਹੋਵੇਗੀ । ਅੰਦਰੂਨੀ ਛੋਟ ਵਾਲਾ ਪ੍ਰਸ਼ਨ ਉਸੇ ਇਕਾਈ ਵਿੱਚੋਂ ਹੋਵੇਗਾ।

ਇਕਾਈਵਾਰ ਅੰਕਾਂ ਦੀ ਵੰਡ :

ਇਕਾਈ	1 ਅੰਕ ਵਾਲੇ ਪ੍ਰਸ਼ਨ	2 ਅੰਕਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ	4 ਅੰਕਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ	6 ਅੰਕਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ	ਕੁੱਲ
ਪਹਿਲੀ ਇਕਾਈ	3	3	1	1	19 ਅੰਕ
ਦੂਜੀ ਇਕਾਈ	3	3	1	1	19 ਅੰਕ
ਤੀਜੀ ਇਕਾਈ	2	2	1	1	16 ਅੰਕ
ਚੌਥੀ ਇਕਾਈ	2	2	1	1	16 ਅੰਕ
ਕੁੱਲ ਅੰਕ	10	20	16	24	70 ਅੰਕ
ਕੁੱਲ ਪ੍ਰਸ਼ਨ	10	10	4	4	28 ਪ੍ਰਸ਼ਨ

ਪਾਠਕ੍ਰਮ (ਲਿਖਤੀ) ਇਕਾਈ – ਪਹਿਲੀ

ਭੂਮੀ ਅਤੇ ਫ਼ਸਲ ਪ੍ਰਬੰਧ ਕਿਰਿਆਵਾਂ

19 ਅੰਕ

ਭੂਮੀ ਵਾਧੇ ਲਈ ਇੱਕ ਮਾਧਿਅਮ ਵਜੋਂ : ਜ਼ਰੂਰੀ ਤੱਤ, ਕਾਰਬਨਿਕ ਖਾਦਾਂ, ਰਸਾਇਣਿਕ ਖਾਦਾਂ ਅਤੇ ਜੈਵਿਕ ਖਾਦਾਂ । ਤੇਜ਼ਾਬੀ ਅਤੇ ਖਾਰੀਆਂ ਭੂਮੀਆਂ ਦਾ ਸੁਧਾਰ । ਭੂਮੀ ਦਾ ਖੁਰਨਾ, ਕਾਰਨ ਅਤੇ ਰੋਕਥਾਮ ਦੇ ਉਪਾਅ ਕਰਨਾ। ਫ਼ਸਲ ਪ੍ਰਬੰਧ ਕਿਰਿਆਵਾਂ : ਕਣਕ, ਧਾਨ, ਮੱਕੀ, ਨਰਮਾ, ਗੰਨਾ, ਸੂਰਜਮੁਖੀ, ਸਰੌਂ, ਛੋਲੇ, ਮੂੰਗੀ, ਜਵਾਰ, ਬਰਸੀਮ, ਮਟਰ, ਟਮਾਟਰ ਅਤੇ ਬੈਂਗਣ ਦੀਆਂ ਕਿਸਮਾਂ ਦੀ ਚੋਣ, ਭੂਮੀ ਦੀ ਤਿਆਰੀ, ਬੀਜ ਦੀ ਮਾਤਰਾ, ਬਿਜਾਈ ਦਾ ਢੰਗ, ਦੇਸੀ ਅਤੇ ਰਸਾਇਣਿਕ ਖਾਦਾਂ ਦੀ ਵਰਤੋਂ, ਸਿੰਚਾਈ, ਨਦੀਨਾਂ ਦੀ ਰੋਕਥਾਮ, ਕਟਾਈ, ਗਹਾਈ ਅਤੇ ਮੰਡੀਕਰਨ ਕਰਨਾ । ਬੇਰ, ਅਮਰੂਦ ਅਤੇ ਅੰਗੂਰ ਵਰਗੇ ਮਹੱਤਵਪੂਰਨ ਫਲਾਂ ਦੀ ਕਾਸ਼ਤ । ਉਕਤ ਫ਼ਸਲਾਂ ਨੂੰ ਲੱਗਣ ਵਾਲੇ ਪ੍ਰਮੁੱਖ ਕੀੜਿਆਂ ਅਤੇ ਬਿਮਾਰੀਆਂ ਦੇ ਲੱਛਣ ਅਤੇ ਇਹਨਾਂ ਦੀ ਰੋਕਥਾਮ ਦੇ ਉਪਾਅ ।

ਇਕਾਈ – ਦੂਜੀ

ਪਸ਼ ਧਨ ਪਾਲਣ ਅਤੇ ਮੁਰਗ਼ੀ ਪਾਲਣ

10 ਅੰਕ

ਪਸ਼ੂ ਧਨ ਪਾਲਣ : ਪਸ਼ੂ ਪਾਲਣ ਅਤੇ ਮੁਰਗ਼ੀ ਪਾਲਣ ਦੀ ਖੇਤੀਬਾੜੀ ਵਿੱਚ ਭੂਮਿਕਾ । ਦੁਧਾਰੂ ਪਸ਼ੂਆਂ ਅਤੇ ਮੁਰਗ਼ੀਆਂ ਦੀਆਂ ਨਸਲਾਂ । ਵਪਾਰਕ ਪੱਧਰ ਤੇ ਦੁਧਾਰੂ ਪਸ਼ੂ ਅਤੇ ਮੁਰਗ਼ੀਆਂ ਪਾਲਣਾ । ਨਵੇਂ ਜੰਮੇ ਕੱਟੜੂ, ਗਰਭਵਤੀ ਪਸ਼ੂ ਅਤੇ ਦੁਧਾਰੂ ਪਸ਼ੂਆਂ ਦੀ ਸੰਭਾਲ । ਬਣਾਉਟੀ ਗਰਭਦਾਨ, ਗਰਭ ਦੀ ਪਛਾਣ ਅਤੇ ਦੁਧਾਰੂ ਪਸ਼ੂਆਂ ਦੇ ਦਿਲ ਦੇ ਰੋਗਾਂ ਦਾ ਪਤਾ ਲਗਾਉਣਾ । ਦੋਗਲਾ ਨਸਲੀ ਕਰਨ । ਦੁਧਾਰੂ ਪਸ਼ੂਆਂ ਅਤੇ ਮੁਰਗ਼ੀਆਂ ਦੀ ਬਿਮਾਰੀਆਂ :

ਮੂੰਹ-ਖੁਰ, ਗਲ ਘੋਟੂ, ਲੇਵੇ ਦੀ ਸੋਜ, ਪੱਟ ਦੀ ਸੋਜ, ਰਾਣੀ ਖੇਤ, ਬਰਡ ਫਲੂ । ਦੁਧਾਰੂ ਪਸ਼ੂਆਂ ਦੀ ਖ਼ੁਰਾਕ । ਮਨੁੱਖੀ ਖ਼ੁਰਾਕ ਵਿੱਚ ਮਾਸ ਅਤੇ ਆਂਡਿਆਂ ਦੀ ਮਹੱਤਤਾ ।

ਇਕਾਈ - ਤੀਜੀ

ਖੇਤੀਬਾੜੀ ਜੀਵ ਵਿਗਿਆਨ – ਬਨਸਪਤੀ ਵਿਗਿਆਨ

16 ਅੰਕ

- 1. ਅਣੂਵੰਸ਼ਕਿਤਾ ਮੈਂਡਲ ਦਾ ਅਣੂਵੰਸ਼ਿਕੀ ਨਿਯਮ ।
- 2. ਇੱਕ ਬੀਜ ਪੱਤਰੀ ਅਤੇ ਦੋ ਬੀਜ ਪੱਤਰੀ ਤਣੇ, ਜੜ੍ਹ ਅਤੇ ਪੱਤੇ ਦੀ ਅੰਦਰੂਨੀ ਸੰਰਚਨਾ ਦਾ ਸਰੀਰਕ ਅਧਿਐਨ।
- 3. ਸਧਾਰਨ, ਸੰਯੁਕਤ ਅਤੇ ਵਿਸ਼ੇਸ਼ ਪ੍ਰਕਾਰ ਦੇ ਫੁੱਲ ਕ੍ਰਮ ।
- 4. ਪਰਾਗਣ ਦੀਆਂ ਕਿਸਮਾਂ ਅਤੇ ਪਰਾਗਣ ਲਈ ਜ਼ਿੰਮੇਵਾਰ ਸਾਧਨ ।
- 5. ਬੀਜ ਅਤੇ ਫਲ ਦਾ ਨਿਸੇਚਨ ਅਤੇ ਵਿਕਾਸ ।
- 6. ਫਲਾਂ ਦੇ ਪ੍ਰਕਾਰ ਅਤੇ ਬੀਜ ਦਾ ਪਸਾਰ (ਖਿੱਲਰਨਾ) ।
- 7. ਹੇਠ ਲਿਖੇ ਬਰੈਕਟ ਵਿੱਚ ਦਿੱਤੇ ਫੁੱਲਦਾਰ ਪੌਦਿਆਂ ਦੇ ਸਧਾਰਨ ਲੱਛਣ ਅਤੇ ਆਰਥਿਕ ਮਹੱਤਤਾ ਦਾ ਅਧਿਐਨ :
 - (ੳ) ਕਰਸੀਫੇਰੀ (ਸਰੌਂ, ਸ਼ਲਗਮ)
 - (ਅ) ਮਾਲਵੇਸੀ (ਨਰਮਾ, ਭਿੰਡੀ)
 - (ੲ) ਰੁਟੇਸੀ (ਨਿੰਬੂ ਜਾਤੀ, ਕੜ੍ਹੀ ਪੱਤਾ)
 - (ਸ) ਪੈਪਲਿਓਨੇਸੀ (ਮਿੱਠਾ ਮਟਰ, ਮਟਰ)
 - (ਹ) ਰੋਜ਼ੇਸੀ (ਗੁਲਾਬ, ਆਲੂ ਬੁਖਾਰਾ)
 - (ਕ) ਸੋਲੇਨੇਸੀ (ਪਿਟੁਨੀਆ, ਆਲੁ)
 - (ਖ) ਕੁਕਰਬਿਟੇਸੀ (ਤੋਰੀ, ਕੱਦੂ)
 - (ਗ) ਗ੍ਰੇਮਿਨੀ (ਜਵੀਂ, ਕਣਕ)
- 8. ਪ੍ਰਕਾਸ਼ ਸੰਸ਼ਲੇਸ਼ਣ, ਸਾਹ ਕਿਰਿਆ ਅਤੇ ਵਾਸ਼ਪ ਉਤਸਰਜਨ ਬਾਰੇ ਸੰਖੇਪ ਜਾਣਕਾਰੀ ।

ਇਕਾਈ – ਚੌਥੀ

ਖੇਤੀਬਾੜੀ ਜੀਵ ਵਿਗਿਆਨ – ਜੰਤੂ ਵਿਗਿਆਨ

16 ਅੰਕ

- ।. ਜਾਣ-ਪਛਾਣ : ਜੰਤੂ ਵਿਗਿਆਨ, ਸਜੀਵ ਵਸਤੂਆਂ ਦੇ ਲੱਛਣ, ਡੀ. ਐੱਨ. ਏ., ਆਰ. ਐੱਨ. ਏ., ਐਨਜਾਈਮਾਂ ਅਤੇ ਹਾਰਮੋਨਾਂ ਬਾਰੇ ਮੱਢਲੀ ਜਾਣਕਾਰੀ ।
- 2. ਜੰਤੂਆਂ ਦਾ ਵਿਗਿਆਨਕ ਨਾਮਕਰਨ ਅਤੇ ਵਰਗੀਕਰਨ ਦੇ ਸਿਧਾਂਤ । ਜੀਵਨ ਦੀ ਮੂਲ ਉਤਪਤੀ । ਵਿਕਾਸ ਦੇ ਸਿਧਾਂਤ ਅਤੇ ਪ੍ਰਮਾਣ ।
- 3. ਥਣਧਾਰੀ ਪਸ਼ੂਆਂ ਦੇ ਆਮ ਲੱਛਣ । ਖ਼ਰਗੋਸ਼ ਦੀ ਮੁੱਢਲੀ ਕਿਰਿਆਤਮਿਕ ਸਰੀਰਕ ਬਣਤਰ ਵਿਸ਼ੇਸ਼ ਰੂਪ ਵਿੱਚ ਪਾਚਨ, ਸਾਹ, ਲਹੁ–ਗੇੜ ਅਤੇ ਮੁਤਰ ਪ੍ਰਣਾਲੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ।
- 4. ਕੀੜੇ ਕੀਟਾਂ ਦਾ ਵਾਧਾ ਅਤੇ ਵਿਕਾਸ । ਘਾਹ ਦੇ ਟਿੱਡੇ ਦੀ ਸਰੀਰਕ ਬਣਤਰ ਦਾ ਅਧਿਐਨ ਕਰਨਾ ।
- 5. ਖੇਤੀ ਲਈ ਆਰਥਿਕ ਮਹੱਤਤਾ ਰੱਖਣ ਵਾਲੇ ਪਸ਼ੁਆਂ ਬਾਰੇ ਅਧਿਐਨ ਕਰਨਾ ।

ਪ੍ਰਯੋਗੀ ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ-ਰੇਖਾ

ਸਮਾਂ : 3 ਘੰਟੇ ਅੰਕ : 20

- 1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਪ੍ਰੀਖਿਅਕ ਵੱਲੋਂ ਮੌਕੇ ਤੇ ਹੀ ਸੈੱਟ ਕੀਤਾ ਜਾਵੇਗਾ ।
- 2. ਇੱਕ ਗਰੁੱਪ ਵਿੱਚ 20 ਤੋਂ ਵੱਧ ਪ੍ਰੀਖਿਆਰਥੀ ਨਹੀਂ ਹੋਣਗੇ ।
- 3. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਦੋ ਭਾਗ ਹੋਣਗੇ । ਹਰੇਕ ਭਾਗ ਵਿੱਚੋਂ ਇੱਕ-ਇੱਕ ਪ੍ਰਯੋਗ ਦਿੱਤਾ ਜਾਵੇਗਾ :
 - (ੳ) ਭੂਮੀ ਅਤੇ ਫ਼ਸਲ ਪ੍ਰਬੰਧ ਕਿਰਿਆਵਾਂ, ਪਸ਼ੁ ਪਾਲਣ ਅਤੇ ਮੁਰਗੀ ਪਾਲਣ
 - (ਅ) ਖੇਤੀਬਾੜੀ ਜੀਵ ਵਿਗਿਆਨ

ਅੰਕਾਂ ਦੀ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹੈ :

• 4-4 ਅੰਕਾਂ ਦੇ ਦੋ ਪ੍ਰਯੋਗ / ਕਿਰਿਆਵਾਂ

8 ਅੰਕ

• ਪ੍ਰਯੋਗੀ ਨੋਟ ਬੁੱਕ, ਚਾਰਟ ਅਤੇ ਹੋਰ ਪੇਸ਼ਕਾਰੀ

4 ਅੰਕ

• ਜ਼ਬਾਨੀ ਪ੍ਰਸ਼ਨ

4 ਅੰਕ

4 ਅੰਕ

• ਬੀਜਾਂ, ਖਾਦਾਂ, ਸੰਦਾਂ, ਮਸ਼ੀਨਾਂ, ਨਦੀਨਾਂ, ਕੀੜਿਆਂ, ਬੀਮਾਰੀਆਂ ਆਦਿ ਦੀ ਪਛਾਣ ਕਰਨਾ ।

ਪਾਠਕ੍ਰਮ (ਪ੍ਰਯੋਗੀ)

ਸਮਾਂ : 3 ਘੰਟੇ

ਅੰਕ : 20

ਭਾਗ – (ੳ)

ਭੂਮੀ ਅਤੇ ਫ਼ਸਲ ਪ੍ਰਬੰਧ ਕਿਰਿਆਵਾਂ, ਪਸ਼ੂ ਪਾਲਣ ਅਤੇ ਮੁਰਗੀ ਪਾਲਣ

- 1. ਪ੍ਰਮੁੱਖ ਫ਼ਸਲਾਂ ਦੀ ਬਿਜਾਈ ਲਈ ਕਿਆਰੀ ਤਿਆਰ ਕਰਨਾ ।
- 2. ਨਦੀਨਾਂ ਦੀ ਰੋਕਥਾਮ ਦੀਆਂ ਵਿਧੀਆਂ ।
- ਸਿੰਚਾਈ ਦੀਆਂ ਵਿਧੀਆਂ ।

- 4. ਰਸਾਇਣਿਕ ਖਾਦਾਂ ਦੀਆਂ ਕਿਸਮਾਂ ਅਤੇ ਇਹਨਾਂ ਦੀ ਵਰਤੋਂ ।
- 5. ਰੁੜੀ ਦੀ ਖਾਦ ਅਤੇ ਇਸ ਦੇ ਤਿਆਰ ਕਰਨ ਦਾ ਢੰਗ ।
- 6. ਵੱਖ-ਵੱਖ ਫ਼ਸਲਾਂ ਦੇ ਪ੍ਰਮੁੱਖ ਕੀੜਿਆਂ ਅਤੇ ਬਿਮਾਰੀਆਂ ਦੀ ਪਛਾਣ ਕਰਨਾ ।
- 7. ਬਾਗ਼ਬਾਨੀ ਅਧੀਨ ਪੌਦਿਆਂ ਦੀ ਸਿਧਾਈ ਅਤੇ ਛੰਗਾਈ ਕਰਨਾ, ਖਾਦ ਦੇਣਾ ਅਤੇ ਸਿੰਚਾਈ ਕਰਨਾ ।
- 8. ਪਸ਼ੁ ਪਾਲਣਾ ।
- 9. ਮੁਰਗ਼ੀਆਂ ਪਾਲਣਾ ।
- 10. ਦੁਧਾਰੂ ਪਸ਼ੁਆਂ ਦੀ ਚੋਣ ਕਰਨਾ ।
- 11. ਫਲਾਂ ਨੂੰ ਸੁਰੱਖਿਅਤ ਸਾਂਭਣਾ ।
- 12. ਖੇਤੀ ਦੇ ਰਿਕਾਰਡ ਦੀ ਸੰਭਾਲ ਅਤੇ ਇਸ ਦੀ ਵਰਤੋਂ ।

ਭਾਗ – (ਅ) ਖੇਤੀਬਾੜੀ ਜੀਵ ਵਿਗਿਆਨ

ਬਨਸਪਤੀ ਵਿਗਿਆਨ :

- 1. ਸਥਾਈ ਸਲਾਈਡਾਂ ਰਾਹੀਂ ਇੱਕ ਬੀਜ ਪੱਤਰੀ ਅਤੇ ਦੋ ਬੀਜ ਪੱਤਰੀ ਤਣੇ, ਜੜ ਅਤੇ ਪੱਤੇ ਦੀ ਬਣਤਰ ਦਾ ਅਧਿਐਨ ਕਰਨਾ ।
- 2. ਵੱਖ-ਵੱਖ ਫੁੱਲ ਕ੍ਰਮ ਦੇ ਨਮੁਨਿਆਂ ਦੀ ਪਛਾਣ ਅਤੇ ਅਧਿਐਨ ਕਰਨਾ ।
- 3. ਵੱਖ-ਵੱਖ ਕਿਸਮਾਂ ਦੇ ਫਲਾਂ ਦੇ ਨਮੁਨਿਆਂ ਦੀ ਪਛਾਣ ਅਤੇ ਅਧਿਐਨ ਕਰਨਾ ।
- 4. ਲਿਖਤੀ ਪਾਠਕ੍ਰਮ ਅਨੁਸਾਰ ਵੱਖ–ਵੱਖ ਕੁੱਲ ਦੇ ਪੌਦਿਆਂ/ਪੌਦਿਆਂ ਦੇ ਭਾਗਾਂ ਦੀ ਪਛਾਣ ਅਤੇ ਅਧਿਐਨ ਕਰਨਾ ।
- 5. ਪ੍ਰਕਾਸ਼ ਸੰਸ਼ਲੇਸ਼ਨ, ਸਾਹ ਕਿਰਿਆ ਅਤੇ ਵਾਸ਼ਪ ਉਤਸਰਜਨ ਸਬੰਧੀ ਵੱਖ–ਵੱਖ ਪ੍ਰਯੋਗ ਕਰਨਾ । ਜੰਤੂ ਵਿਗਿਆਨ :
- 1. ਖੇਤੀਬਾੜੀ ਵਿੱਚ ਪਸ਼ੁਆਂ ਦੀ ਆਰਥਿਕ ਮਹੱਤਤਾ ਬਾਰੇ ਜਾਣਕਾਰੀ ।
- 2. ਸੰਯੁਕਤ ਟਿਸ਼ੁਆਂ ਅਤੇ ਅੰਗਾਂ ਦਾ ਤੰਤੂ ਵਿਗਿਆਨ ਅਨੁਸਾਰ ਸਲਾਈਡਾਂ ਰਾਹੀਂ ਅਧਿਐਨ ਕਰਨਾ ।
- 3. ਮਾਡਲ ਰਾਹੀਂ ਥਣ ਧਾਰੀ ਜੀਵ ਦੀ ਅੱਖ ਅਤੇ ਦਿਲ ਸਬੰਧੀ ਅਧਿਐਨ ਕਰਨਾ ।
- 4. ਮਾਡਲ/ਚਾਰਟ ਰਾਹੀਂ ਖ਼ਰਗੋਸ਼ ਦੀਆਂ ਵੱਖ–ਵੱਖ ਪ੍ਰਣਾਲੀਆਂ ਬਾਰੇ ਅਧਿਐਨ ਕਰਨਾ।
- 5. ਫ਼ਸਲਾਂ ਦੇ ਪ੍ਰਮੁੱਖ ਕੀੜਿਆਂ ਅਤੇ ਰੋਗਾਂ ਦੀ ਪਛਾਣ ਕਰਨਾ ।