Question Paper Pattern (XI & XII)

Mathematics and Statistics (Arts & Science)

(Year 2019-20)

Total Marks-80 (with options 112)

Time -3 hrs.

General Instructions: The question paper is divided into four sections.

- (1) Section A: Q.No. 1 contains Eight multiple choice type of questions carrying **Two** marks each. Q.No. 2 contains Four very short answer type of questions carrying **One** mark each.
- (2) Section B: Q.No. 3 to Q.No. 14 contains Twelve short answer type of questions carrying **Two** marks each. (Attempt any **Eight**).
- (3) Section C: Q.No. 15 to Q.No. 26 contains Twelve short answer type of questions carrying **Three** marks each. (Attempt any **Eight**).
- **(4) Section D:** Q.No. 27 to Q.No. 34 contains Eight long answer type of questions carrying **Four** marks each. (Attempt any **Five**).
- (5) Use of log table is allowed. Use of calculator is **not** allowed.
- (6) Figures to the right indicate full marks.
- (7) For each MCQ, correct answer must be written along with its alphabet. e.g., (a)...... /(b)............
- (8) Use of graph paper is not necessary. Only rough sketch is expected.
- (9) The question paper contains 15% theory question.

*Weightage to Learning Objectives

	Total Weightage (With Option)	Percentage %
Knowledge	34 Marks	30 %
Understanding	47 Marks	42 %
Application + Skill	31 Marks	28 %
Total	112 Marks	100 %

*Difficulty Level of the questions

	Total Weightage (With Option)	Percentage %
Easy	34 Marks	30 %
Average	56 Marks	50 %
Difficult	22 Marks	20 %
Total	112 Marks	100 %

* Weightage to Types of questions

Type of question	Marks for each	No of questions	Total Marks
			(with option)
MCQ	2 Mark each	Q.No. 1 (i to viii)	16 Marks
VSA	1 Mark each	Q.No. 2 (i to iv)	4 Marks
SA I	2 Mark each	Q.No. 3 to 14	24 Marks
SA II	3 Mark each	Q.No. 15 to 26	36 Marks
LA	4 Mark each	Q.No. 27 to 34	32 Marks
Total			112 Marks

Subject: Mathematics and Statistics

Std. XI & XII (Arts & Science) **Question Paper Format For Annual Examination**

Marks 80 Time- 3 hrs

General Instructions: The question paper is divided into four sections.

- (1) Section A: Q.No. 1 contains Eight multiple choice type of questions carrying **Two** marks each. Q.No. 2 contains Four very short answer type of questions carrying **One** mark each.
- (2) Section B: Q.No. 3 to Q.No. 14 contains Twelve short answer type of questions carrying Two marks each.
- (3) Section C: Q.No. 15 to Q.No. 26 contains Twelve short answer type of questions carrying Three marks each.
- (4) Section D: Q.No. 27 to Q.No. 34 contains Eight long answer type of questions carrying Four marks each.
- (5) Use of log table is allowed. Use of calculator is **not** allowed.
- (6) Figures to the right indicate full marks.
- (7) Use of graph paper is not necessary. Only rough sketch is expected.

O.N. 1 C.L. 4 1 4	1	Section A	[1.7]
Q.No.1 Select and write t (i) to (viii)	the correct answ	ver:	[16]
Q.No.2 Answer the follow	ving:		[04]
(i) to (iv)	VSA		
		Section B	
Attempt any Eigh	ıt:		[16]
Q.No.3 to Q.No. 14	SA- I		
		Section C	
Attempt any Eigh	ıt:		[24]
Q.No.15 to Q.No. 26	SA-II		
		Section D	
Attempt any Five	:		[20]
Q.No.27 to Q.No. 34	$\mathbf{L}\mathbf{A}$		

Subject: Mathematics

Std. XI & XII (Arts & Science) Question Paper Format For Unit Test

Marks 25 Time- 1 ½ hrs **Section A** Q.No.1 Select and write the correct answer: [04] (i) to (ii) **MCQ** Q.No.2 Answer the following: [03] (i) to (iii) **VSA Section B** Attempt any **Four**: [08] Q.No.3 to Q.No. 8 SA-I **Section C** Attempt any **Two**: [06] Q.No.9 to Q.No. 11 **SA-II Section D** Attempt any **One**: [04]

LA

Q.No.12 to Q.No. 13

Question Paper Format For Terminal Examination

Marks 50			Time- 2 ½ hrs
Q.No.1 Select and write the (i) to (v) Q.No.2 Answer the followin (i) to (iv)	MCQ	Section A	[10] [04]
Attempt any Eight: Q.No.3 to Q.No. 13	SA- I	Section B	[16]
Attempt any Four: Q.No.14 to Q.No. 19	SA-II	Section C	[12]
Attempt any Two: Q.No.20 to Q.No. 23	LA	Section D	[08]

Subject: Mathematics and Statistics CHAPTER-WISE DISTRIBUTION OF MARKS - Std XI

Sr.	Chapter	Marks	Marks with
No.	Спарссі		option
1	Angle and its Measurement	3	4
2	Trigonometry 1	4	6
3	Trigonometry 2	6	8
4	Determinants and Matrices	7	10
5	Straight Lines	4	5
6	Circle	3	4
7	Conic Sections	6	8
8	Measures of Dispersion	4	5
9	Probability	4	6
10	Complex Numbers	4	6
11	Sequence and Series	5	7
12	Permutations and Combinations	6	8
13	Method Of Induction and Binomial Theorem	5	7
14	Sets and Relations	4	6
15	Functions	4	5
16	Limits	4	6
17	Continuity	3	5
18	Differentiation	4	6
	Total	80	112

Std- XII

Sr.	Chantan		Marks	Marks with
No.	Chapter			option
1.	Mathematical Logic		6	8
2	Matrices		4	6
3	Trigonometric Functions		7	10
4	Pair of Straight Lines		4	6
5	Vectors		5	7
6	Three Dimensional Geometry		4	5
7	Line		4	5
8	Plane		4	5
9	LPP		3	4
10	Continuity		4	6
11	Differentiation		6	8
12	Applications of Derivatives		6	8
13	Indefinite Integration		6	9
14	Definite Integration and Its application		6	8
15	Differential Equations		5	7
16	Probability Distribution		3	5
17	Binomial Distribution		3	5
	Total	12	80	112