

QUESTION DESIGN

Subject :	Science		
	(a) Theory	Marks	: 70
	(b) Practical	Marks	: 10

Class : X **Total Marks : 80**
Time : 3 Hours

The weightage or the distribution of marks over different dimensions of the question paper shall be as follows :

1. Weightage to Objectives of Learning :

Sl.No.	Knowledge	Mark	Percentage of Marks (approx.)
1.1	Knowledge	21	30%
1.2	Understanding	35	50%
1.3	Application/Skill	14	20%
	Total	70	100%

2. Weightage to Content :

Chapter No.	Title	Marks
1	Light	8
2	The Human Eye	4
3	Electricity	} 8
4	Magnetic Effects	
5	Sources of Energy	4
6	Periodic Classification	4
7	Chemical Reactions	4
8	Metals and Non-Metals	} 10
9	Acids, Bases and Salts	
10	Carbon	5
11	Life Process	6
12	Control and Co-ordination	} 7
13	How Do Organism Reproduce	
14	Heredity and Evaluation	4
15	Our Environment	3
16	Management of Natural Resources	3
	Total :	70

3. Weightage to Forms of Questions :

Sl/No	Form of Questions	Marks for each Question	No. of Question	Total Marks	Percentage of Marks
3.1	Objective	1	14	14	20 %
3.2	Very Short Answer	1	07	07	10 %
3.3	Short Answer I	2	08	16	23 %
3.4	Short Answer II	3	07	21	30 %
3.5	Long Answer	4	03	12	17 %
	Total		39	70	100%

4. Weightage to Difficulty Level :

Sl/No	Level	Percentage of Marks
4.1	Easy	30%
4.2	Average	50%
4.3	Difficult	20%
	Total	100%

5. Scheme of Option :

There shall not be any overall choice in the question paper. However, internal choice on a very selective basis shall be given based on same objective. It shall also have same mark allotment and same difficulty level.

6. Scheme of Section :

There shall be no section.

7. PRACTICALS

10 marks

Guidelines for Internal/External Examiner

7.1 Practical Exercise

5 marks

(i) Setting/handling of the apparatus

3

(ii) Calculation

(iii) Observation/result

(iv) Interpretation

2

7.2 Viva-voce

2 marks

7.3 Practical Record

3 marks

(i) Regularity in submission

1 mark

(ii) Recording of experiments in proper way

1 marks

(iii) Neatness

1 mark

Total

10 marks

BLUEPRINT - I

Subject : Science
Class : X

Maximum Marks : 70
Time : 3 hours
No. of Paper : 1 (One)

Forms of Question Topic	KNOWLEDGE					UNDERSTANDING					APPLICATION/SKILL					TOTAL
	Obj (1m)	VSA (1m)	SA I (2m)	SA II (3m)	LA (4m)	Obj (1m)	VSA (1m)	SA I (2m)	SA II (3m)	LA (4m)	Obj (1m)	VSA (1m)	SA I (2m)	SA II (3m)	LA (4m)	
Light- reflection and Refraction	1(1)			3(1)			1(1)		3(1)							8(4)
The Human Eye									3(1)		1(1)					4(2)
Electricity		1(1)													4(1)	5(2)
Magnetic effects		1(1)						2(1)								3(2)
Sources of Energy	1(1)					1(1)		2(1)								4(3)
Periodic Classification				3(1)							1(1)					4(2)
Chemical Reactions	1(1)								3(1)							4(2)
Metals and non-metals		1(1)				1(1)				4(1)						6(3)
Acids, bases and salts								2(1)					2(1)			4(2)
Carbon and its compounds	1(1)	1(1)				1(1)							2(1)			5(4)
Life Processes		1(1)						2(1)						3(1)		6(3)
Control and co-ordination	1(1)					1(1)										2(2)
How do organisms reproduce						1(1)				4(1)						5(2)
Heredity and Evolution			2(1)				1(1)				1(1)					4(3)
Our environment									3(1)							3(1)
Management of Natural resources	1(1)		2(1)													3(2)
Sub-Total	6(6)	5(5)	4(2)	6(2)		5(5)	2(2)	8(4)	12(4)	8(2)	3(3)		4(2)	3(1)	4(1)	70(39)
TOTAL	21(15)					35(17)					14(7)					

- Note:**
1. The figures in the bracket denotes the number of questions.
 2. This is only a sample blue print. The question setter may develop his/her own blue print as per the design.