

Design of A Question Paper

Class: I PUC

Subject: Biology

Code: 36

Time: 3 Hours 15 Minutes (of which 15 minutes for reading the question paper)

Max. Marks: 70

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

A. Weightage to Objectives:

Objective	Weightage %	Marks
Knowledge	40 %	42
Understanding	30 %	33
Application	15 %	15
Skill	15 %	15

Note: 1% or 2% variation is allowed per objective.

B. Weightage to the unit/chapter (Blue print of entire syllabus)

Unit	Chapter No	Chapter name	No of teaching Hours	Marks	Total Marks
I	1	Living World	3	3	17
	2	Biological Classification	2	2	
	3	Plant Kingdom	6	5	
	4	Animal Kingdom	8	7	
II	5	Morphology of Flowering Plants	5	4	15
	6	Anatomy and flowering plants	4	4	
	7	Structural Organization in Animals	8	7	
III	8	Cell – the unit of life	10	8	18
	9	Biomolecules	5	5	
	10	Cell cycle and Cell division	4	5	
IV	11	Transport in Plants	7	6	27
	12	Mineral Nutrition	7	6	
	13	Photosynthesis in Higher Plants	5	5	
	14	Respiration in Plants	5	5	
	15	Plant growth and development	7	5	
V	16	Digestion and Absorption	4	3	28
	17	Breathing and Exchange of gases	4	3	
	18	Body fluids and circulation	5	4	
	19	Excretory products and their elimination	4	3	
	20	Locomotion and movement	5	4	
	21	Neural control and co-ordination	6	5	
	22	Chemical co-ordination and integration	6	6	
Total			120	105	105

Note: Variation of one mark per chapter/unit is allowed. However the total marks should not exceed 105.

C. Weightage to forms of questions

Part	Type of questions	Main	Number of question to be set	Number of question to be answered	Units to be covered
A	1 mark – Very short answer (VSA)		10	10	All Units (05 Units)
B	2 mark – short answer (SA1)		8	5	
C	3 mark – short answer (SA2)		8	5	
D	5 mark – long answer (LA)	Sec -I	05	04	
		Sec – II	05	03	

D. Weightage to level of difficulty:

Level	Weightage %	Marks
Easy	40 %	28
Average	40 %	28
Difficult	20 %	14

General Instructions:

- Questions should be clear, unambiguous understandable and free from grammatical errors.
- Questions which are based on same concepts, law, fact etc. and which generate the same answer should not be repeated under different forms (VSA, SA and LA)

I PUC –BIOLOGY (BLUE PRINT FOR MODEL PAPER 1)

SL.NO	UNIT & CHAPTER	Knowledge				Understanding				Application				Skill				Total				Marks	Total	
		1M	2M	3M	5M	1M	2M	3M	5M	1M	2M	3M	5M	1M	2M	3M	5M	1M	2M	3M	5M			
I	Diversity in the living world																							
1	The living world														1					1		2		
2	Biological classification		1			1												1	1			3		
3	Plant kingdom				1																1	5		
4	Animal kingdom								1		1								1		1	7		
II	Structural organization in plants and animals																							
5	Morphology of flowering plants	1							1									1			1	6		
6	Anatomy of flowering plants		1					1											2			4		
7	Structural organization in animals																1				1	5		
III	Cell-Structure and function																							
8	Cell: the unit of life				1								1							1	1	8		
9	Biomolecules	1		1														1		1		4		
10	Cell cycle and cell division		1												1				1	1		5		
IV	Plant physiology																							
11	Transport in plants			1		1												1		1		4		
12	Mineral nutrition	2		1														2		1		5		
13	Photosynthesis in higher plants	1			1													1			1	6		
14	Respiration in plants		1						1										1		1	7		
15	Plant growth and development											1									1	5		
V	Human physiology																							
16	Digestion and absorption	1																1				1		
17	Breathing and exchange of gases								1												1	5		
18	Body fluids and circulation		1														1		1		1	7		
19	Excretory products and their								1		1							1		1		4		
20	Locomotion and movement	1							1									1		1		4		
21	Neural control and coordination								1												1	5		
22	Chemical coordination and integration			1																1		3		
	TOTAL	7	10	12	15	2	2	6	25	1	2	3	5		2	3	10					105		
		44				35				11				15										
		42%				33%				10%				14%										