

**DEPARTMENT OF PRE UNIVERSITY EDUCATION**

**MODEL QUESTION PAPER**

**BIOLOGY (36)**

**II PUC**

**2022-23**

**DISTRIBUTION OF MARKS-CHAPTER-WISE**

Unit No	Unit Wise Hours	Unit Wise Marks	Chapter No	Chapters	Chapter Wise Hours	Chapter Wise Marks
VI	29	28	1	Reproduction in organisms	5	5
			2	Sexual reproduction in flowering plants	10	9
			3	Human reproduction	9	9
			4	Reproductive health	5	5
VII	30	28	5	Principles of inheritance and variation	12	11
			6	Molecular basis of inheritance	12	11
			7	Evolution	6	6
VIII	25	24	8	Human health and disease	10	9
			9	Strategies for enhancement in food production	9	9
			10	Microbes in human welfare	6	6
IX	12	12	11	Biotechnology-principles and processes	7	7
			12	Biotechnology and its applications	5	5
X	24	23	13	Organisms and populations	7	7
			14	Ecosystem	6½	6
			15	Biodiversity and conservation	3½	3
			16	Environmental issues	7	7
	<b>120</b>	<b>115</b>			<b>120</b>	<b>115</b>
Knowledge = 40% (46 marks)				Easy = 40%	1 mark = 20 questions	
Understanding = 30% (35 marks)				Average = 40%	2 marks = 08 questions	
Application = 15% (17 marks)				Difficult = 20%	3 marks = 08 questions	
Skill = 15% (17 marks)				<b>Total questions = 47</b>	5 marks = 11 questions	

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**UNIT-WISE WEIGHTAGE**

UNIT NO	UNITS	TEACHING HOURS	KNOWLEDGE				UNDERSTANDING				APPLICATION / APPRECIATION				EXPRESSION/ SKILL				TOTAL QUESTIONS				MARKS WEIGHTAGE
			1M	2M	3M	5M	1M	2M	3M	5M	1M	2M	3M	5M	1M	2M	3M	5M	1M	2M	3M	5M	
VI	REPRODUCTION	29	6	2	1			1	1	1							1	6	3	2	2	28	
VII	GENETICS AND EVOLUTION	30	4	2	1			1		1			1		1	1		4	4	2	2	28	
VIII	BIOLOGY IN HUMAN WELFARE	25	1			2	1			1	1		2					3		2	3	24	
IX	BIOTECHNOLOGY	12	1							1			1	1				2			2	12	
X	ECOLOGY	24	2		1	1	2			1				1	1	1		5	1	2	2	23	
		120	40% (46 MARKS)				30% (35 MARKS)				15% (17 MARKS)				15% (17 MARKS)				20	8	8	11	115

**NOTE:**

1. The question paper must be prepared based on the individual blueprint on the basis of weightage of marks fixed for each chapter.
2. A variation of 1% per objective weightage is allowed.
3. A variation of 1 mark per unit/chapter is allowed. However, the total marks should not exceed 115 marks.
4. At least one question each carrying 1 mark, 2 marks, 3 marks, and 5 marks have to be derived from each unit.
5. When a question carrying 5 marks is divided into sub-questions (3+2/2+2+1/1+1+1+1+1), the sub-questions have to be derived from the same chapter. One of the 5 marks questions should be subdivided into 5 questions carrying 1 mark each.
6. When a question carrying 5 marks is divided into sub-questions, the sub-questions have to be derived from different topics of the same chapter.
7. Skill-based questions should not expect descriptive answers.
8. MCQs and fill-in-the-blank type of questions should be simple and straightforward.

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**CHAPTER-WISE WEIGHTAGE**

Unit No	Total hours	Chapter No	CHAPTERS	Hours	KNOWLEDGE				UNDERSTANDING				APPLICATION				SKILL				Total Questions				Chapter wise marks	Unit wise marks		
					1 M	2 M	3 M	5 M	1 M	2 M	3 M	5 M	1 M	2 M	3 M	5 M	1 M	2 M	3 M	5 M	1 M	2 M	3 M	5 M				
VI	29																											
		1	Reproduction in organisms	5	1	1					1											1	2				5	28
		2	Sexual reproduction in flowering plants	10	2	1						1										2	1			1	9	
		3	Human reproduction	9	1		1														1	1			1	1	9	
4	Reproductive health	5	2							1										2			1		5			
VII	30	5	Principles of inheritance and variation	12	2					1					1			1			2	2			1	11	28	
		6	Molecular basis of inheritance	12	1	1	1					1									1	1	1	1		11		
		7	Evolution	6	1	1													1			1	1	1		6		
VIII	25	8	Human health and disease	10	1			1							1						1			1	1	9	24	
		9	Strategies for enhancement in food production	9								1	1		1							1			1	1		9
		10	Microbes in human welfare	6				1	1													1			1	6		
IX	12	11	Biotechnology : Principles and processes	7	1							1						1						1	7	12		
		12	Biotechnology and its applications	5											1										1		5	
X	24	13	Organisms and populations	7				1			1							1						1	7	23		
		14	Ecosystem	6½	2			1												1				3	1		6	
		15	Biodiversity and conservation	3½			1																		1		3	
		16	Environmental issues	7				1											1					1	1		7	
	120		<b>Total Questions</b>	<b>120</b>	<b>14</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>1</b>		<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>20</b>	<b>8</b>	<b>8</b>	<b>11</b>	<b>115</b>	<b>115</b>		
			<b>OBJECTIVE WEIGHTAGE</b>		<b>40% (46 MARKS)</b>				<b>30% (35 MARKS)</b>				<b>15% (17 MARKS)</b>				<b>15% (17 MARKS)</b>											