CLASS-XII
BIOLOGY (Code No. 054)

Time: 3 Hrs   **Max Marks 70**

Unit	Title	No. of periods	Marks
I	Reproduction	30	14
II	Genetics and Evolution	40	18
III	Biology and Human Welfare	30	14
IV	Biotechnology and its Applications	30	10
V	Ecology and Environment	30	14
	Total	**160**	**70**

SCHEMATIC DISTRIBUTION OF MARKS

Unit	Chapter	Section A 1 mark questions	Section B 2 marks questions	Section C 3 marks questions	Section D 5 marks questions	Total marks
Reproduction	1.Reproduction in Organisms	1	-	-	-	1
	2. Sexual reproduction in flowering plants	2	-	-	1 or 1(One question should be from chapter 2 and other choice question should be from chapter 3)	7
	3. Human Reproduction	1	1	-		3
	4. Reproductive health	1	1 or 1	-	-	3
Genetics and Evolution	5. Heredity and variation	3	1 or 1	-	-	5
	6. Molecular bases of inheretance	2	1	1	-	7
	7.Evolution	1	1	1	-	6
Biology and Human welfare	8.Human health and diseases	3	1	1 or 1(Choice question)	-	8
	9. Strategies for enhancement in food production	2	-		-	2
	10. Microbes in human welfare	2	1	-	-	4
Biotechnology and its	11.Biotechnology-Principles	2	1 or 1	1	-	4

applications and processes			or		
12. Biotechnology and its applications	1	1	1(Choice question)	-	6
Ecology and environment — 13. Organisms and populations	1	1(One choice question will be from chapter 15)	-	-	3
14.Ecosystem	2	-	-	1(One choice question will be from chapter 16)	7
15. Biodiversity and conservation	2	OR 1	-	-	2
16.Environmental Issues	2	-	-	Or 1	2
No. Of questions	1(28 Parts)	10	4	2	17

Instructions to the paper setter

1. Question paper will consist of four sections A, B, C and D with total of 17 questions.
2. Section-A will contain question number 1 having 28 parts of 1 mark each. 16 questions will be of Multiple choice question type, 6 fill in the blanks and 6 are True/false.
3. Section-B will contain questions number 2 to 11-total 10 short answer type questions of 2 marks each. Question 4,6,9,10 will have internal choice.
4. Section-C will contain questions number 12 to 15 –total 4 questions of 3 marks each. Question 14 and 15 will have internal choice.
5. Section-D will consist of question 16 and question 17 -total 2 questions of 5 marks each. One choice question will necessarily be of diagram/illustrative/graph based question. Both questions will have 100% internal choice.
6. There should be at least one comparison based question.
7. Language used should be clearly understood and specific.