

West Bengal Board Class 10 Life Science and Environment Syllabus

Life Science and Environment

Class X

Syllabus —

1. Control and Coordination in living organisms
2. Continuity of life
3. Heredity and some common genetic diseases
4. Evolution and adaptation
5. Environment, its resources and their conservation

First Summative Evaluation: 40

Month of evaluation : April

Internal Formative Evaluation : 10

1. Control and Coordination in living organisms
2. Continuity of life – a) Cell division and cell cycle

Second Summative Evaluation : 40

Month of evaluation : August

Internal Formative Evaluation : 10

2. Continuity of life – b) Reproduction
 - c) Sexual reproduction in flowering plants
 - d) Growth and development
3. Heredity and some common genetic diseases
4. Evolution and adaptation

Third Summative Evaluation: 90

Month of evaluation : December

Internal Formative Evaluation : 10

5. Environment, its resources and their conservation

N.B. Along with this theme, 4 themes from the first and second summative evaluation are to be included.

Life Science and Environment

Blueprint for Summative Evaluation of Class X

Question Pattern and Distribution of Marks

1st Summative Evaluation

Total Marks: 40

Sl. No	Theme	Group A	Group B	Group C	Group D	Total Marks per Theme	Total Number of Questions
		MCQ One mark per question	VSA One mark per question	SA Two marks per question	LA Five marks per question		
1.	Control and Coordination in living organisms	1×5=5	1×5=5	2×3=6	5×2=10	26	15
2.	Continuity of life – a) Cell division and cell cycle	1×3=3	1×4=4	2×1=2	5×1=5	14	9
	Total	8	9	8	15	40	24

Group A - MCQ : All questions are compulsory. There will be no alternative for MCQ.

Group B - VSA : Out of 11 questions, 9 questions are to be attempted. One (1) extra question is to be set from each theme. VSA questions may be of four types – answer in one word or in one sentence, fill in the blanks, true/false and match column A with column B. In column matching two points are to be kept in mind – i) For each correct matching one (1) mark is allotted. ii) There should be at least one (1) extra option in Column B.

Group C - SA : Out of 6 questions, 4 questions are to be attempted. One (1) extra question is to be set from each theme.

Group D - LA : 3 questions are to be attempted. Alternative question from the same theme is to be set for each question. 5 marks can be given as a whole or can be divided in 3+2 or 2+3.

Life Science and Environment

Blueprint for Summative Evaluation of Class X

Question Pattern and Distribution of Marks

2nd Summative Evaluation

Total Marks: 40

Sl. No	Theme	Group A	Group B	Group C	Group D	Total Marks per Theme	Total Number of Questions
		MCQ One mark per question	VSA One mark per question	SA Two marks per question	LA Five marks per question		
1.	Continuity of life— a) Reproduction b) Sexual reproduction in flowering plants c) Growth and development	1×3=3	1×2=2	2×1=2	5×1=5	12	7
2.	Heredity and some common genetic diseases	1×3=3	1×2=2	2×2=4	5×1=5	14	8
3.	Evolution and adaptation	1×3=3	1×2=2	2×2=4	5×1=5	14	8
	Total	9	6	10	15	40	23

Group A - MCQ : All questions are compulsory. There will be no alternative for MCQ.

Group B - VSA : Out of 9 questions, 6 questions are to be attempted. One (1) extra question is to be set from each theme. VSA questions may be of four types – answer in one word or in one sentence, fill in the blanks, true/false and match column A with column B. In column matching two points are to be kept in mind – i) For each correct matching one (1) mark is allotted. ii) There should be at least one (1) extra option in Column B.

Group C - SA : Out of 8 questions, 5 questions are to be attempted. One (1) extra question is to be set from each theme.

Group D - LA : 3 questions are to be attempted. Alternative question from the same theme is to be set for each question. 5 marks can be given as a whole or can be divided in 3+2 or 2+3.

Life Science and Environment

Blueprint for Summative Evaluation of Class X

Question Pattern and Distribution of Marks

3rd Summative Evaluation/Selection Test

Total Marks: 90

Sl. No	Theme	Group A MCQ One mark per question	Group B VSA One mark per question	Group C SA Two marks per question	Group D LA Five marks per question	Total Marks per Theme	Total Number of Questions
1.	Control and Coordination in living organisms	1×3=3	1×5=5	2×3=6	5×1=5	19	12
2.	Continuity of life	1×3=3	1×5=5	2×2=4	5×1=5	17	11
3.	Heredity and some common genetic diseases	1×3=3	1×3=3	2×2=4	5×1=5	15	9
4.	Evolution and adaptation	1×3=3	1×3=3	2×2=4	5×1=5	15	9
5.	Environment, its resources and their conservation	1×3=3	1×5=5	2×3=6	5×2=10	24	13
	Total	15	21	24	30	90	54

Group A - MCQ : All questions are compulsory. There will be no alternative for MCQ.

Group B - VSA : Out of 26 questions, 21 questions are to be attempted. One (1) extra question is to be set from each theme. VSA questions may be of four types – answer in one word or one sentence, fill in the blanks, true/false and match column A with column B. In column matching two points are to be kept in mind – i) For each correct matching one (1) mark is allotted. ii) There should be at least one (1) extra option in Column B.

Group C - SA : Out of 17 questions, 12 questions are to be attempted. One (1) extra question is to be set from each theme.

Group D - LA : 6 questions are to be attempted. Alternative question from the same theme is to be set for each question. 5 marks can be given as a whole or can be divided in 3+2 or 2+3.

**** This question pattern is indicative of Madhyamik Examination.**