

Punjab Education, Curriculum, Training & Assessment Authority
Smart Syllabus / Accelerated Learning Program (ALP)-Deleted Topics and
Exercise Questions for Biology-11 (Academic Session 2025-26)

To ensure timely curriculum completion and effective learning within the educational calendar of the Academic Session 2025-26, the following topics of Biology-11 have been deleted under the Accelerated Learning Program (ALP). This adjustment has been made carefully to prevent any learning loss, content overlap or conceptual gap for students. The modified scheme retains all core concepts required for progression to higher grades, while maintaining curriculum coherence across science subjects.

Chapter No. / Name	Deleted Topics and Exercise Questions	Page No.
1 Biodiversity and Classification	How are Archaea unique?	2-3
	• 1.2 Taxonomic Hierarchy	5-7
	• Table	7
	• 1.5 Classification of Vertebrates	19-25
	• 1.6 Classification of Viruses	25-26
	• 1.7 Biodiversity	27-29
	• 1.8 Species and Speciation	29-30
	• MCQs No.1-2 & 5-10	30-31
	• Long Questions No. 1-2 & 6-11	32
	• Inquisitive Questions (All)	32
2 Bacteria and Viruses	• 2.3 Motility in Bacteria	37
	• 2.5 Bacteria; Ecology and Diversity	39-41
	• 2.6 Importance of Bacteria	41-42
	• MCQs No. 4, 6 & 8	45-46
	• Short Questions No. 11-14	46-47
	• Long Questions No. 2, 5 & 6	47
	• Inquisitive Questions (All)	47
3 Cells and Subcellular Organelles	• 3.1 Cells –The Basic Unit of Life	48-49
	• 3.2 Cell Theory	49-51
	• 3.3 Microscopy	51-54
	• Techniques to study the structure of plasma membrane	58-59
	• Difference between Eukaryotic and Prokaryotic Cells	76-77
	• Short Questions No. 1 & 2	88
	• Inquisitive Questions (All)	90

4 Molecular Biology	• 4.1 Biological Molecules	92-93
	• 4.2 Types of Bonds in Biology	93-94
	• 4.3 Condensation (Synthesis) and Hydrolysis	94-95
	• Figure 4.38 and side box	118
	• Figure 4.43 Only structure of NAD	121
	• Short Question No. 1	125
	• Long Questions No. 1, 2	126
	• Inquisitive Questions (All)	126
5 Enzymes	• 5.4 Factors affecting the rate of enzyme action	131-133
	• MCQ No. 6	138
	• Short Question No. 7	139
	• Long Questions No. 5-8	139
	• Inquisitive Questions (All)	139
6 Bioenergetics	• ATP; The Energy Currency of Cells	141
	• Role of Photosynthetic Pigments, Chlorophylls, Accessory Pigments	144-145
	• Other Organic Molecules as Fuel for Cellular Respiration	161
	• 6.3 Photorespiration	161-164
	• Short Questions No. 7 & 10	165
	• Long Questions No. 1 & 13-16	165-166
	• Inquisitive Questions (All)	166
7 Structural and Computational Biology	Entire unit is deleted along with its all MCQs, Short questions, Long questions and Inquisitive questions	167-176
8 Plant Physiology	• 8.1 Nutrition in Plants	177-180
	• 8.3 Support in Plants	182-183
	• 8.4 Water Potential	183-184
	• Plant Growth Regulators	192-194
	• MCQ No. 10	200
	• Short Questions No. 1-3	201
	• Inquisitive Questions (All)	201
9 Human Digestive System	• Storage and Metabolic Role of the Liver	212
	• MCQ No. 10	213
	• Inquisitive Questions (All)	214

10 Human Respiratory System	• Properties of the Respiratory Surface	216
	• 10.2 Transport of Gases	221-223
	• Otitis media	226
	• MCQs No. 6 & 7	229
	• Short Questions No. 1 & 6	230
	• Long Questions No. 2 & 3	230
	• Inquisitive Questions (All)	230
11 Human Circulatory System	• 11.2 Blood vessels	238-242
	• 11.4 Cardiovascular Disorders	246-249
	• MCQ No. 1	252
	• Short Questions No. 1, 5, 7, 8 & 10	253
	• Long Questions No. 4, 5 & 9-13	253-254
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12 Human Skeletal and Muscular Systems	• Bone Development	257-258
	• Box	264
	• Both boxes	265
	• 12.2 Disorders of Skeletal System	266-270
	• Difference between Tetany and Tetanus and Boxes	277
	• Short Questions No. 8, 9 & following two parts of Q. 15: ○ Rheumatoid arthritis and osteoarthritis ○ Tetany and tetanus	278-279
	• Long Questions No. 3, 4, 11 & 12	279
	• Inquisitive Questions (All)	279

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Instructions for Preparation of Exam Paper of Biology for Grade-11

ESSENTIAL INSTRUCTIONS FOR PAPER SETTERS

The paper of Biology for Grade-11 will consist of 85 marks.

Objective Type = 17 + Subjective Type = 68 marks.

Timing of the paper will be 3 hours.

(Objective Type = 20 minutes + Subjective Type = 2:40 hours)

The paper will be made as per following details:

Part-I: Objective:	Q-1: 17 Multiple Choice Questions from entire content of the textbook. The detail is as follows: <table><tr><td>Chp. No.</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr><tr><td>No. of MCQs</td><td>2</td><td>1</td><td>1</td><td>2</td><td>1</td><td>2</td><td>2</td><td>1</td><td>1</td><td>2</td><td>2</td></tr></table>	Chp. No.	1	2	3	4	5	6	8	9	10	11	12	No. of MCQs	2	1	1	2	1	2	2	1	1	2	2	1 × 17 = 17
Chp. No.	1	2	3	4	5	6	8	9	10	11	12															
No. of MCQs	2	1	1	2	1	2	2	1	1	2	2															
Part-II: Subjective:	Q-2: 8 short answer questions have to be answered out of 12. SAQs will be given from the entire content of the textbook. The detail is as follows: <table><tr><td>Chapter No.</td><td>1</td><td>3</td><td>8</td><td>11</td></tr><tr><td>No. of Short Questions per Chapter</td><td>2</td><td>3</td><td>4</td><td>3</td></tr></table>	Chapter No.	1	3	8	11	No. of Short Questions per Chapter	2	3	4	3	2 × 8 = 16														
Chapter No.	1	3	8	11																						
No. of Short Questions per Chapter	2	3	4	3																						
	Q-3: 8 short answer questions have to be answered out of 12. SAQs will be given from the entire content of the textbook. The detail is as follows: <table><tr><td>Chapter No.</td><td>2</td><td>5</td><td>9</td><td>12</td></tr><tr><td>No. of Short Questions per Chapter</td><td>2</td><td>3</td><td>3</td><td>4</td></tr></table>	Chapter No.	2	5	9	12	No. of Short Questions per Chapter	2	3	3	4	2 × 8 = 16														
Chapter No.	2	5	9	12																						
No. of Short Questions per Chapter	2	3	3	4																						
	Q-4: 6 short answer questions have to be answered out of 9. SAQs will be given from the entire content of the textbook. The detail is as follows: <table><tr><td>Chapter No.</td><td>4</td><td>6</td><td>10</td></tr><tr><td>No. of Short Questions per Chapter</td><td>3</td><td>3</td><td>3</td></tr></table>	Chapter No.	4	6	10	No. of Short Questions per Chapter	3	3	3	2 × 6 = 12																
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