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CLASS 11

Biology

Chapterwise Important Questions

19 sections | 76 original questions | 2026-27

Read each chapter, attempt the questions, and support explanations with working or textbook evidence.

Choose a chapter or topic

Biology	
Chapter 1	The Living World
Chapter 2	Biological Classification
Chapter 3	Plant Kingdom
Chapter 4	Animal Kingdom
Chapter 5	Morphology of Flowering Plants
Chapter 6	Anatomy of Flowering Plants
Chapter 7	Structural Organisation in Animals
Chapter 8	Cell: The Unit of Life
Chapter 9	Biomolecules
Chapter 10	Cell Cycle and Cell Division
Chapter 11	Photosynthesis in Higher Plants
Chapter 12	Respiration in Plants
Chapter 13	Plant Growth and Development
Chapter 14	Breathing and Exchange of Gases
Chapter 15	Body Fluids and Circulation
Chapter 16	Excretory Products and their Elimination
Chapter 17	Locomotion and Movement
Chapter 18	Neural Control and Coordination
Chapter 19	Chemical Coordination and Integration

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CHAPTER 1

The Living World

Biology

1. Why is a scientific naming system needed for organisms?
2. Arrange genus, species, family and order in a taxonomic hierarchy.
3. Distinguish taxonomy from systematics.
4. Explain why a species is treated as a basic unit of classification.

CHAPTER 2

Biological Classification

Biology

1. Compare Monera and Protista by cell organisation.
2. Explain the nutritional differences among fungi, plants and animals.
3. Why are viruses discussed separately from cellular kingdoms?
4. Describe the partners in a lichen and explain their association.

CHAPTER 3

Plant Kingdom

Biology

1. Compare bryophytes and pteridophytes by vascular tissue and dominant generation.
2. Explain why gymnosperm seeds are described as naked.
3. Describe alternation of generations in plants.
4. Give distinguishing features of algae and angiosperms.

CHAPTER 4

Animal Kingdom

Biology

1. Compare radial and bilateral symmetry.
2. Distinguish acoelomate, pseudocoelomate and coelomate organisation.
3. Explain how chordates differ from non-chordates.
4. Use appropriate features to compare an annelid, an arthropod and a mollusc.

CHAPTER 5

Morphology of Flowering Plants

Biology

1. Distinguish a tap root from a fibrous root system.
2. Explain how a modified stem can be distinguished from a modified root.
3. Draw a typical flower and label its four whorls.
4. Describe the diagnostic floral features of Solanaceae.

CHAPTER 6

Anatomy of Flowering Plants

Biology

1. Compare dicot and monocot stems in vascular-bundle arrangement.
2. Explain how xylem and phloem structure supports their functions.
3. Distinguish meristematic tissue from permanent tissue.
4. Compare the anatomy of a dicot leaf with that of a monocot leaf.

CHAPTER 7

Structural Organisation in Animals

Biology

1. Describe the external features that help a frog live in water and on land.
2. Trace food through the frog's digestive system.
3. Explain double circulation with reference to the frog's three-chambered heart.
4. Describe the principal organs of the frog's nervous and reproductive systems.

CHAPTER 8

Cell: The Unit of Life

Biology

1. Compare prokaryotic and eukaryotic cells.
2. Explain why the plasma membrane is described by the fluid-mosaic model.
3. Distinguish rough ER, smooth ER and Golgi apparatus by function.
4. Relate mitochondrial and chloroplast structures to energy conversion.

CHAPTER 9

Biomolecules

Biology

1. Compare carbohydrates, proteins and lipids by monomer or component and function.
2. Explain the difference between DNA and RNA at the molecular level.
3. Describe how an enzyme lowers the activation barrier of a reaction.

4. Predict how substrate concentration and temperature can influence enzyme activity.

CHAPTER 10

Cell Cycle and Cell Division

Biology

1. Describe the main events of interphase.
2. Explain how chromosome behaviour during meiosis produces haploid cells.
3. Compare mitotic metaphase with meiotic metaphase I.
4. State the significance of crossing over and independent assortment.

CHAPTER 11

Photosynthesis in Higher Plants

Biology

1. Explain the roles of photosystem II and photosystem I.
2. Compare cyclic and non-cyclic photophosphorylation.
3. Describe carbon fixation in the Calvin cycle.
4. Explain how C_4 plants initially concentrate carbon dioxide and reduce photorespiration.

CHAPTER 12

Respiration in Plants

Biology

1. Identify the cellular locations of glycolysis, the Krebs cycle and electron transport.
2. Explain how fermentation differs from aerobic respiration.

3. Describe the role of oxygen in the respiratory electron-transport chain.

4. Why can respiration be described as an amphibolic pathway?

CHAPTER 13

Plant Growth and Development

Biology

1. Distinguish growth from differentiation.

2. Compare the roles of auxins, gibberellins and cytokinins.

3. Explain the sigmoid growth curve.

4. Describe how abscisic acid can help a plant respond to water stress.

CHAPTER 14

Breathing and Exchange of Gases

Biology

1. Explain how pressure changes produce inspiration.

2. Relate alveolar structure to diffusion of gases.

3. Describe the transport of oxygen and carbon dioxide in blood.

4. Distinguish tidal volume from vital capacity.

CHAPTER 15

Body Fluids and Circulation

Biology

1. Trace blood through the chambers and major vessels of the human heart.

2. Explain the role of the sinoatrial node.

3. Compare arteries, veins and capillaries.

4. Describe the major steps involved in blood clotting.

CHAPTER 16

Excretory Products and their Elimination

Biology

1. Explain ultrafiltration in the renal corpuscle.

2. Describe selective reabsorption along a nephron.

3. How do ADH and the kidney help regulate body-water balance?

4. Compare ammonotelic, ureotelic and uricotelic animals.

CHAPTER 17

Locomotion and Movement

Biology

1. Explain the sliding-filament mechanism of muscle contraction.

2. Describe the roles of calcium ions and ATP in contraction.

3. Distinguish a hinge joint from a ball-and-socket joint.

4. Compare skeletal, smooth and cardiac muscle.

CHAPTER 18

Neural Control and Coordination

Biology

1. Explain the generation and conduction of an action potential.

2. Compare chemical and electrical synapses.

3. Draw a neuron and label its main parts.

4. Describe the main components of a reflex arc and explain the protective response.

CHAPTER 19

Chemical Coordination and Integration

Biology

1. Compare peptide and steroid hormones by receptor location.

2. Explain feedback regulation using the hypothalamus-pituitary-thyroid axis.

3. Describe how insulin and glucagon act in blood-glucose regulation.

4. Relate a named endocrine disorder to excess or deficiency of a hormone.

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