

SECTION-I

2. Write short answers to any FIVE (5) questions. (10)
- Define biodelements and biomolecules.
 - Why Abdul Malik Asmai is famous? Also write down the name of any one of his book.
 - Define pharmacology and biotechnology.
 - Define habitat and species.
 - What is difference between population and community?
 - What are quantitative observations? Give an example.
 - Define phagocytosis and pinocytosis.

viii Differentiate between a hypertonic solution and a hypotonic solution.

3. Write short answers to any FIVE (5) questions. (10)

- What is the role of biodiversity in ecosystem?
- On which bases Robert Whittaker introduced five kingdom system?
- What is difference between benign and malignant tumors?
- What do you know about the process of disjunction and non-disjunction?
- What is difference between karyokinesis and cytokinesis?
- What is cell cycle and what are its main phases?
- What is meant by electron transport chain?
- What is meant by aerobic respiration?

4. Write short answers to any FIVE (5) questions. (10)

- Define lock and key model and draw diagram.
- What is meant by saturation in enzymes?
- What is prosthetic group?
- Define bolus.
- What is appendix?
- What are two vital functions of root?
- Define pericardium.
- Write down effect of Dengue Fever on platelets.

SECTION-II

Note: Attempt any TWO (2) questions. (18)

- (a) Which professions can be adopted after attaining biological studies? Explain any four. (4)
- (b) Describe cell wall in detail. (5)
- (a) Write down causes of deforestation. (4)
- (b) Explain the role of chlorophyll and light on photosynthesis. (5)
- (a) Describe the sources, importance and effects of deficiency of iron and calcium. (4)
- (b) Write down a note on mechanism of opening and closing of stomata and draw figure. (5)