

SECTION-I

- 2. Write short answers to any FIVE (5) questions. (10)**
- Define morphology and anatomy.
 - What is horticulture and how it is related to agriculture?
 - Write down names of famous books of Abdul Malik Asmai.
 - What is meant by "Control" in experiments?
 - Define law.
 - Differentiate between ratio and proportion.
 - What is active transport?
 - Describe function of lysosomes.
- 3. Write short answers to any FIVE (5) questions. (10)**
- Why viruses are not included in any of five kingdoms?
 - Write down two harmful effects of eucalyptus tree.

- Write down the role of mitosis in regeneration.
 - Draw and label diagram of anaphase of mitosis.
 - Define necrosis.
 - What is chiasmata?
 - Differentiate between oxidation and reduction reactions.
 - What are pigments?
- 4. Write short answers to any FIVE (5) questions. (10)**
- What is meant by saturation of active sites?
 - Write down the names of two enzymes.
 - Write down the use of enzymes in paper industry.
 - Write down the cause of Dengue fever.
 - Write down the side effects of saturated fatty acids in human body.
 - What is meant by anemia? Write down its cause.
 - Differentiate between cohesion and adhesion.
 - Differentiate between bicuspid and tricuspid valves.

SECTION-II

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

- 5.(a)** Explain population level and community level. (4)
- (b)** Explain structure and function of cell membrane and also draw the diagram. (5)
- 6.(a)** Define endangered species and explain endangered species in Pakistan with a few examples. (4)
- (b)** What is meant by aerobic respiration? Explain its three main stages. (5)
- 7.(a)** What are the environmental hazards related to the use of fertilizers? (4)
- (b)** Define transpiration and describe factors which affect the rate of transpiration, in detail. (5)