

Biology

Note: Time allowed for Section-B and Section-C is 2 Hours and 45 minutes.

SECTION-B

Q2: Attempt any EIGHT parts. Each part carries FOUR marks.

- 1) Give correct sequence of biological organization?
- 2) Write the names of two mammals and two fish species which are over hunted in Pakistan?
- 3) Briefly explain smooth endoplasmic reticulum?
- 4) Briefly write the structure and function of fibrous connective tissue?
- 5) Explain the role of mitosis in growth of organism with an example?
- 6) Define necrosis. How it causes inflammation?
- 7) Briefly explain activators. Give TWO examples as well?
- 8) Define electron transport chain in aerobic respiration.
- 9) Write the components of saliva and gastric juice.
- 10) How does the high and low solute concentration in stomata affect the rate of transpiration?
- 11) Define the "Dubb" sound produced in the heart emphasizing on the opening and closing of different valves.

SECTION-C Marks: 24

Note: Attempt any THREE questions. All questions carry equal marks.

- Q3:** (a) Ratio and proportion are used in solving biological problems. Briefly explain.
 (b) Define classification. Write the taxonomic hierarchy of man (human being).
- Q4:** (a) What is cytoplasm? Write down its TWO functions.
 (b) List THREE events that occur in anaphase-1.
- Q5:** (a) Explain induced fit model with the help of diagram.
 (b) Explain the role of chlorophyll in photosynthesis.
- Q6:** (a) Write causes and symptoms of Anaemia.
 (b) Write down the steps of translocation of food in plants.