

ESKPIX-XXV (I)

SSC-(P-I)

BIOLOGY – 9th

Time: 2 Hours 40 Minutes

SECTION "B"

Marks: 32

Q.2. Attempt any EIGHT (08) questions. All questions carry equal marks.

- i. Write names of organs of blood circulatory system.
- ii. How does hunting affect the population of endangered species in Pakistan? Give TWO examples.
- iii. Briefly explain the structure of the vacuole in plant cells and how it differs from animal cells.
- iv. What is the role of filtration in kidney function?
- v. Which events occur during early prophase?
- vi. Write major events occur during Telophase II of meiosis.
- vii. What are the different ways in which enzymes lower activation energy?
- viii. Where is chlorophyll located in plants, algae and photosynthetic prokaryotes?
- ix. Briefly explain the role of capillaries in a villus.
- x. Define pulse.
- xi. What are the key features of the aorta's structure?

SECTION "C"

Marks: 21

Note: Attempt any THREE (03) questions. All questions carry equal marks.

- Q.3.** a) What is the significance of ratio in data analysis? 03
b) Briefly explain the importance of biodiversity in an ecosystem. 04
- Q.4.** a) What is the relationship between the surface area of root hair cells and the efficiency of absorption? 03
b) Which events take place in synthesis phase of interphase? 04
- Q.5.** a) What is the effect of a high body temperature on human enzyme activity? 04
b) Briefly discuss why water is essential for photosynthesis. 03
- Q.6.** a) Explain the term absorption in digestive system. 04
b) What is the key difference between Rh-positive and Rh-negative blood types? 03