

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

**Section - B**

Marks: 32

Q.II Answer any EIGHT parts. Each part carries FOUR marks.

1. Write down the linkage of Biology with Biochemistry and Biostatistics.
2. What are A.F.A King's observations about malaria.
3. Describe the contributions of Abu Hsamen Aliahiz in the field of Biology.
4. Differentiate between light and electron microscopes.
5. Define cell cycle. Write only names of events occurring during interphase.
6. How variation in temperature affects enzyme activity?
7. Compare lactic acid fermentation with alcoholic fermentation.
8. What are inorganic fertilizers? Describe their any three environmental hazards.
9. Describe liver as digestive gland.
10. Briefly describe arteriosclerosis. (Hardening of arteries)
11. Differentiate between transpiration and translocation.

**Section - C**

Marks: 21

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

- Q-III (a) Differentiate between inductive reasoning and deductive reasoning. (4)
- (b) Differentiate between two kingdom system and five kingdom system along with their advantages and disadvantages. (3)
- Q-IV (a) Describe that Photosynthesis is a life sustaining process. (3)
- (b) Describe apoptosis, give at least three examples. (4)
- Q-V (a) Describe the effects of concentration of substrate and pH on enzyme activity. (4)
- (b) Draw the structure of ATP molecule. (3)
- Q-VI (a) Draw labeled diagram of human digestive system. (4)
- (b) Describe the main functions of blood cells. (3)