BIOLOGY

Time: 2:40 Hours

Intermediate Part-I, Class 11th (1st A 324)

SUBJECTIVE

Paper I

Group - II Marks: 68

Note: Section-I is compulsory. Attempt any THREE (3) questions from Section-II.

SECTION - I

2. Write short answers to any EIGHT questions.

 $(2 \times 8 = 16)$

- i What are polysaccharides? Write down the names of four examples.
- ii What is optimum temperature?
- iii State the theory of "Induce Fit Model".
- iv Differentiate the irreversible and reversible inhibitors.
- v Basidiomycetes are called club fungi. Why?
- vi Give the biological names of Rusts and Smut.
- vii Differentiate grade radiata and bilateria.
- viii What is pseudocoelom? How it is different from coelom?
 - ix How host is disinfested from a parasite?
 - x Differentiate Urochordata and Cephalochordata.
- xi What is the mechanism for ATP synthesis in cyclic and noncyclic photophosphorylation?
- xii Why Calvin cycle is also called C₃ Pathway?

3. Write short answers to any EIGHT questions.

 $(2 \times 8 = 16)$

- i Write down the organ level in plants.
- ii Why it is important to control environmental pollution in Pakistan?
- iii What will happen if a chromosome loses its centromere?
- iv What are leucoplasts? Give their function.
- v Write down any two characteristics of diatoms.
- vi Give two main characters of Oomycotes?
- vii How would you compare green algae with plants?
- viii What are the symptoms of Malaria?
- ix Why is Larynx also known as voice box?
- x What is tuberculosis? Give its causative agents.
- xi What is the contribution of Dixon in Ascent of sap?
- xii Transpiration is considered as a necessary evil. How?

4. Write short answers to any SIX questions.

 $(2 \times 6 = 12)$

- i Define binomial nomenclature, give its rules.
- ii Give comparison between amphitrichous and peritrichous bacteria.
- iii Define ovule and embryo sac.
- iv Differentiate between the bryophytes and tracheophytes.
- v Give two vegetative characters of family Solanaceae with example.
- vi Compare Dicot with Monocot plants.
- vii What is macrophagous feeding? Give an example.
- viii Define digestion. Write down its types.
- ix Write down the role of Gastrin.

SECTION - II

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- 5. (a) Write down a note on biological organization at population and community level. (4)
 - (b) In what ways is respiration in birds the most efficient and elaborate?

(4) (4)

- **6.** (a) Why Carbon is considered to occupy the central position in skeleton of life?
 - (b) Write down the disease cycle of loose smut of wheat.

(4)

7. (a) Write down in detail structure and functions of plasma membrane.

- (4)(4)
- (b) Describe process of digestion in cockroach with the help of labelled diagram.

8. (a) Write down the biological classification of Corn (zea mays).

(4)

(b) Explain pressure flow theory.

(4) (4)

9. (a) What are pleomorphic bacteria? Discuss different shapes of bacteria.