

Roll No.(in figures): (in words):

Maximum Marks: 48

(SUBJECTIVE TYPE)

Time Allowed :1.45 Hours

PART - I

Q2. Write short answers to any FIVE (5) questions: (5×2=10)

- (i) Write the names of two famous books of Jabber bin Hyyan.
- (ii) Define population.
- (iii) Give two examples of biological laws.
- (iv) Write two observations of A.F.A. King.
- (v) What is meant by biodiversity?
- (vi) Define binomial nomenclature.
- (vii) What is meant by passive diffusion?
- (viii) Why is plasma membrane called semi-permeable membrane?

Q3. Write short answers to any FIVE (5) questions: (5×2=10)

- (i) Define mitosis and write the names of its two major phases.
- (ii) Explain briefly how asexual reproduction occurs in Hydra?
- (iii) Write the causes of Necrosis.
- (iv) Write down the functions of active site.
- (v) Differentiate between protease enzyme and amylase enzyme.
- (vi) Define Fermentation. Name its two types.
- (vii) What are accessory pigments? Give an example.
- (viii) Why oxidation - reduction reactions is called Redox-reaction.

Q4. Write short answers to any FIVE (5) questions: (5×2=10)

- (i) What are micronutrients? Give its two examples.
- (ii) What is gastric juice? Also write down its chemical composition.
- (iii) What is ulcer? What are its causes?
- (iv) How does Dengue spread?
- (v) What is meant by Blood Group systems?
- (vi) What is bicuspid valve?
- (vii) Define pulmonary circulation or circuit.
- (viii) Differentiate between cardiac diastole and ventricular systole.

PART - II

Note: Attempt any TWO questions. (2×9=18)

- Q5. (a) Explain atomic and molecular level. 4
- (b) Write a comprehensive note on nucleus. 5
- Q6. (a) Give any four characteristics of Enzymes. 4
- (b) What are Dark Reactions? Give events of Dark Reactions. 5
- Q7. (a) Write a note on Lipids. 4
- (b) What is transpiration? Explain the factors affecting the rate of transpiration. 5