

INTERMEDIATE PART-I (11th CLASS)**BIOLOGY PAPER-I (OLD SCHEME)**

TIME ALLOWED: 2.40 Hours

SUBJECTIVE

MAXIMUM MARKS: 68

NOTE: - Write same question number and its part number on answer book, as given in the question paper.

SECTION-I

- 2. Attempt any eight parts. 8 × 2 = 16**
- Differentiate between Micromolecules and Macromolecules.
 - Write the name of major bioelements with their percentage composition.
 - Differentiate between Fats and Oils.
 - What are Conjugated Molecules? Give one example at least.
 - Write four characteristics of Enzymes.
 - What is induced Fit Model? Who gave it?
 - What is Ultracentrifugation?
 - What is chemical composition of secondary cell wall?
 - What are Ribosomes and Polysomes?
 - What are Prions and Virons?
 - Define Species by giving an example.
 - Write the symptoms of AIDS.
- 3. Attempt any eight parts. 8 × 2 = 16**
- What are Plasmids? Write down their significance.
 - What are Pili? Write their composition and function.
 - Compare chemical composition of shells of foraminifera and Actinopods.
 - What are Diatoms? Why they are important?
 - Differentiate between Septate and Aseptate Hyphae. What is Mycelium?
 - Differentiate between Ectomycorrhizae and Endomycorrhizae.
 - Define Double Fertilization. Give its significance.
 - Define Alternation of generation. Briefly write its significance.
 - Differentiate between Microphylls and Megaphylls.
 - What is Polymorphism? Give an example.
 - How asexual reproduction takes place in Sponges? What are Gemmules?
 - Write any two characters and any two examples of Phylum Annelida.
- 4. Attempt any six parts. 6 × 2 = 12**
- Write the equations showing Alcoholic and Lactic Acid fermentation.
 - Write the formulas of Chlorophyll "a" and "b".
 - Give the functions of Erypsin and Gastrin.
 - How fatty acids enter the blood stream from Lumen of intestine?
 - Write the difference between the blood transported by Pulmonary vein and Pulmonary artery.
 - What is the difference between Bronchioles and Bronchus?
 - Write the flow of sap in palms. Give its rate.
 - Give the importance of K^+ in transport of CO_2 in humans and transpiration in plants.
 - Write the %age of inorganic ions and water in blood plasma.

SECTION-II

NOTE: - Attempt any three questions.

- Discuss organ and system level of biological organization. 4
- Describe the life cycle of Rhizopus. 4
- Describe four properties of water that make it an important medium of life. 4
- Write a note on digestion in Cockroach. 4
- Describe various factors affecting the rate of enzyme action. 4
- What is Photophosphorylation? Explain cyclic flow of electrons during Photosynthesis. 4
- Write a note on Chloroplast. 4
- Describe the air passage way in Man. 4
- Write a brief note on respiration in Bacteria with one example of each type. 4
- Describe comprehensively double circuit blood circulation in man. 4