

INTERMEDIATE PART-II (12th CLASS)**BIOLOGY PAPER-II (NEW SCHEME)**

TIME ALLOWED: 3.10 Hours

SUBJECTIVE

MAXIMUM MARKS: 83

**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

- (i) Define Glomerular Filtrate.
- (ii) What are Heat-Shock Proteins?
- (iii) Define Painting with one example.
- (iv) What is Rigor Mortis?
- (v) How muscle fatigue is produced?
- (vi) Differentiate between Tendon and Ligament.
- (vii) Define Gerontology.
- (viii) What is Blastoderm?
- (ix) Differentiate between Apoptosis and Necrosis.
- (x) Define Metastasis.
- (xi) Define Theory of Special Creation.
- (xii) What do you know about Hydrothermal Vent?

3. Attempt any Eight parts. 8 × 2 = 16

- (i) What are Neurotransmitters? Give two examples.
- (ii) Define Neuroglia with its function.
- (iii) What are Pacinian Corpuscles?
- (iv) What is After birth?
- (v) Define Diploid Parthenogenesis with example.
- (vi) Define Fruit set.
- (vii) What is Probe?
- (viii) Write two uses of PCR.
- (ix) Differentiate between Phytoplankton and Zooplankton.
- (x) Write two adaptations for terrestrial ecosystem.
- (xi) Differentiate between health and disease.
- (xii) What are industrial effluents?

4. Attempt any Six parts. 6 × 2 = 12

- (i) Differentiate between Euchromatin and Heterochromatin.
- (ii) What is Phosphodiester Bond?
- (iii) Differentiate between Template and Coding Strand.
- (iv) Define Linkage.
- (v) Differentiate between Sex Chromosomes and Autosomes.
- (vi) What is Sex Limited Trait?
- (vii) Differentiate between Primary and Secondary Succession.
- (viii) What are decomposers?
- (ix) Define grazing.

SECTION-II

NOTE: - Attempt any three questions. 8 × 3 = 24

- 5.(a) Explain Urinary System of Human. 4
- (b) Write note on Greenhouse Effect. 4
- 6.(a) Describe Ultrastructure of Myofilament of skeletal muscle. 4
- (b) Explain the evidence of evolution from Embryology. 4
- 7.(a) Write down detailed note on Adrenals. 4
- (b) Give an account of Nitrogen Cycle. 4
- 8.(a) Explain the process of Cloning. Give its uses and advantages. 4
- (b) Write a note on Genetic Code. 4
- 9.(a) Write a note on Growth Correlations. 4
- (b) Define Epistasis and explain it with Bombay Phenotype. 4

SECTION-III (PRACTICAL)

10. Attempt any three parts.

- (A) Make a sketch and label the male reproductive system of frog. 5
- (B) Make the labelled diagram of hind limb of frog. 5
- (C) Write an experiment to demonstrate the phenomenon of Geotropism in plants. 5
- (D) Write an experiment to observe the telophase stage of mitosis in a dividing cell. 5
- (E) Write short answers of the following:- 5
 - (i) Define Autecology. 5
 - (ii) What are biotic components of an ecosystem? 5
 - (iii) Define Cell Cycle. 5
 - (iv) Which type of muscles are present in the walls of heart? 5
 - (v) What is Sarcomere? 5