

**INTERMEDIATE PART-I (11<sup>th</sup> CLASS)****BIOLOGY PAPER-I (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) Differentiate between Population and Community.
  - (ii) Define Phyletic Lineage.
  - (iii) Write down the structural formula of Phosphatidylcholine (Lecithin).
  - (iv) Differentiate between Apoenzymes and Holoenzymes.
  - (v) Define Lock and Key model of Enzyme.
  - (vi) How pH affects the rate of enzyme action?
  - (vii) Define Binomial Nomenclature.
  - (viii) Compare Radiotherapy and Gene therapy to control diseases.
  - (ix) Define Parasexuality.
  - (x) How yeast differ with other Fungi?
  - (xi) Define double fertilization. In which plants it occurs?
  - (xii) Differentiate between Male and Female Cones of Pinus.
- 3. Attempt any eight parts. 8 × 2 = 16**
- (i) Give three functions of Smooth Endoplasmic Reticulum.
  - (ii) What are two subunits in Ribosomes and how their attachment is controlled?
  - (iii) What are Trichonymphas?
  - (iv) What are Kelps? Name the parts of Thallus of a Kelp.
  - (v) Differentiate between Foraminiferans and Actinopods.
  - (vi) What is Chlorella?
  - (vii) What is Hermaphroditic Animal? Give an example.
  - (viii) Give two characters of subclass Eutheria.
  - (ix) Give three basic characters of Chordates.
  - (x) What is Polymorphism?
  - (xi) What is compensation point? When it occurs?
  - (xii) What is Stroma? Give its function.
- 4. Attempt any six parts. 6 × 2 = 12**
- (i) What are Detritivores? Give one example.
  - (ii) What is Appendicitis?
  - (iii) What is Peristalsis?
  - (iv) What changes occur in an animal during diving reflex?
  - (v) What is larynx?
  - (vi) What is Photorespiration? Name organelles involved in it.
  - (vii) What is Pulmonary Tuberculosis? Give its causes.
  - (viii) What are Lenticels?
  - (ix) What are Blue babies?

P.T.O.

**SECTION-II**

**NOTE: - Attempt any three questions of the following:-**

- 5.(a) Describe Protection and Conservation of Environment. 4  
(b) Characterize Basidiomycota. 4
- 6.(a) Describe structure and function of Golgi apparatus in a cell. 4  
(b) Only sketch the pathway of Glycolysis. 4
- 7.(a) Describe the Lytic Cycle of the Bacteriophage. 4  
(b) Describe the function of Enzymes present in Pancreatic Juice. 4
- 8.(a) Write down about the Acylglycerols. 4  
(b) What is the significance of alternation of Generations? 4
- 9.(a) Explain about use and misuse of Antibiotics. 4  
(b) Define Root Pressure. Explain its role in Ascent of sap. 4

**SECTION-III (PRACTICAL)**

**10. Attempt any three parts.**

- (A).(i) You are provided with oil and Sudan III solution. Write Biochemical test for the substance which oil contains. 3  
(ii) What are Lipids? 2
- (B).(i) You are provided with flower of Lathyrus Odoratus. Describe the following parts of flower in technical terms. Calyx, Corolla, Gynaecium 3  
(ii) Differentiate between complete and incomplete flower. 2
- (C) Sketch and label the diagram of respiratory system of Frog. 5
- (D).(i) Write down an experiment to study the effects of temperature on Enzyme action. 3  
(ii) What is an Enzyme? Give one example. 2
- (E) Give one character for the identification of following specimen/slides. 5  
(i) Euglena (ii) Nostoc (iii) Prothallus of Adiantum (iv) Male cone of Pinus  
(v) T.S. of Dicot stem