

**BOARD OF INTERMEDIATE AND SECONDARY EDUCATION HYDERABAD SINDH**

**SECONDARY SCHOOL CERTIFICATE PART I & II ANNUAL EXAMINATION 2026**

**BIOLOGY ( Model Paper)**

**For Class:IX**

**Max Marks [75]**

**Section-A**

**Multiple Choice Questions (MCQs) Marks (12)**

**Q.1 Choose the correct answer for each from the given options.**

- i. A localized group of organisms that belong to the same species is called a:  
(a) Biosphere      (b) Community      (c) Ecosystem      (d) Population

ii. Select the odd one:

- (a) Theory      (b) Law      (c) Hypothesis      (d) Ratio

(iii) In date organization, which method is mostly useful?

- (a) Table      (b) Graph      (c) Ratio      (d) Both a and b

(iv) Which of the following is the correct way of writing a scientific name of an organism?

- (a) Huobara bustard      (b) E.coil      (c) Allium Cepa      (d) Canis lupis

(v) Members of which kingdom have cell wall and are all heterotrophic:

- (a) Monera      (b) Protista      (c) Plantae      (d) Fungi

(vi) What is responsible for the high resolution of the electron microscope?

- (a) High magnification      (b) Short wavelength of the electron beam  
(c) Use of heavy metals strains      (d) Very thin section

(vii) Rate of reaction will increase when temperature:

- (a) Increases      (b) Decreases  
(c) Below 10°C      (d) Both "a" and "c"

(viii) All are involved in classification except:

- (a) Analogous      (b) Homologous      (c) Cytology      (d) Genetics

(ix) Splitting of glucose (glycolysis) release small amount of energy which is enough to generate.

- (a) 2 ATP      (b) 5 ATP      (c) 18 ATP      (d) 36 ATP

(x) Select the mismatched:

- (a) Protein Amino acid      (b) Carbohydrate → Glucose  
(c) Fats Starch      (d) Nucleic acid → Nucleotide

(xi) All are sources of calcium except:

- (a) Red meat      (b) Green leafy vegetables      (c) Broccoli      (d) Nuts

(xii) The movement of organic materials (food) take place through:

- (a) Xylem      (b) Vessels      (c) Tracheid      (d) Right ventricle

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**Section-B**

**(Short Answer Questions)**

**Note: Answer the following questions. Each question carries 03 marks.**

Q.1 Why subject biology is named as multidimensional subject?

OR

Why meiosis-I is called reduction division?

Q.2 Define the any two following terms:

- (i) Analogous      (ii) Classification      (iii) Species      iv) Observation

Q.3 Why cell membrane is semipermeable in nature?

Q.4 Why iodine used to stain the onion peel?

Q.5 Why enzymes are specific in nature?

OR

How CO<sub>2</sub> maintain the temperature of earth?

Q.06 Why fertilizes are necessary for plants?

Q.07 How water flow through xylem?

OR

Draw a labeled diagram of frog's digestive system.

Q.08 What is transpiration?

**Section-C**

**(Long Answer Questions)**

**Note: Answer the following questions. Each question carries six (06) Makrs.**

Q.09 Describe the role of Muslim scientists in the field of biology.

OR

Explain choloroplast as light trapping and storage organelle.

Q.10 What is taxonomic hierarchy? Explain aims of classification.

Q.11 Describe various stages of mitosis with suitable diagrams.

OR

Discuss significance od transpiration?

Q.12 Explain factors affecting enzyme activity.

**Alternative to Practical (ATP) Compulsory (15) Makrs**

Q.13 Activity: Observation of various stages of Mitosis by Slides/Models/Charts.

OR

Activity: Identification of major organs in a Dissected Frog.