

Board of Secondary Education

Subject: Biology

Class: 10th

Time Allowed: 3 Hours

Marks: 75

Year: Sample 2024

-----  
SECTION A – MCQs (12 Marks)  
-----

Q1. Choose the correct answer:

i) Powerhouse of the cell is:

- a) Nucleus   b) Ribosome   c) Mitochondria   d) Chloroplast

ii) Photosynthesis occurs in:

- a) Stomata   b) Chloroplast   c) Root hairs   d) Xylem

iii) Basic unit of life is:

- a) Atom   b) Cell   c) Tissue   d) Organ

(... total 12 MCQs)

-----  
SECTION B – Short Questions (25 Marks)  
-----

Q2. Answer ANY FIVE:

i) Define cell theory.

ii) Write two functions of blood plasma.

iii) Differentiate between aerobic and anaerobic respiration.

- iv) Define osmosis with an example.
- v) What is DNA? Write its role in inheritance.
- vi) Write two differences between mitosis and meiosis.
- vii) Define ecosystem.

-----

#### SECTION C – Long Questions (38 Marks)

-----

- Q3. Describe the process of photosynthesis with equation.
- Q4. Explain structure and function of the human heart.
- Q5. Discuss Mendel's laws of inheritance with an example.
- Q6. What are enzymes? Explain their importance in digestion.