

BIOLOGY DEPARTMENT
S.5 TOPICAL TESTS SERIES
SET TWO APRIL/MAY 2024 TERM 1

Attempt any 4 questions

1. a) Describe the structure of following organelles

i) Chloroplast (05 marks)

ii) Mitochondrion (5 marks)

b) How is the chloroplast adapted to its function (05 marks)

c) What are the differences between mitochondrion and chloroplast (05 marks)

2. a) Describe the structure of the membrane according to fluid mosaic model (08 marks)

b) Explain the different factors that affect membrane fluidity (08 marks)

c) State any 4 importances of proteins in cell membrane (04 marks)

3. a) describe the structure of the cell nucleus (06 marks)

b) Eukaryotic cells have intracellular and extracellular components. Outline the functions of one named extracellular component (06 marks)

c) Differentiate between cell wall and plasma membrane (08 marks)

4a) Distinguish between two types of lysosomes (04 marks)

b) Describe the different roles of lysosome (12 marks)

c) Outline any 4 importances of rough endoplasmic reticulum (04 marks)

5a) Distinguish between Cilia and flagella (04 marks)

b) What are the different functions of cilia and flagella in different organisms (05 marks)

c) Draw a well labeled structure of an eukaryotic plant cell as observed under electron microscope (11 marks)

6 Describe how the properties of water relate to its biological role (20 marks)

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