**BIOLOGY**

**FORM 1**

**TIME: 1 HOUR.**

**NAME………………………………………………………**

**ADM NUMBER………………………**

***Attempt ALL the questions in the spaces provided (30 marks)***

1. What is a cell? (1mark)

………………………………………………………………………………………………………

2. State the functions of the following cell structures. (2marks)

(a) Sap vacuole.

………………………………………………………………………………………………………

(b) Nucleolus.

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3. Name **three** properties of the cell membrane.(3marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

**4.** Name the organelles that perform each of the following functions in a cell.(4marks)

(i) Synthesis of proteins

………………………………………………………………………………………………………………………………………………………………….

(ii) Transport cell secretions

………………………………………………………………………………………………………………………………………………………………….

(iii) Destroy old and worn out organelles or even the entire cell.

………………………………………………………………………………………………………………………………………………………………….

(iv) Package and transport glycoproteins.

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5. The diagram below represents a cell organelle.



i).Identify the organelle. (1mark)

………………………………………………………………………………………………………………………………………………………………….

(ii) Name the part labelled B. (1mark)

………………………………………………………………………………………………………

(iii) State the function of the part labelled A. (1mark)

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6. State **two** characteristics of living organisms that are specific to plants. (2marks)

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7. Give the name to the study of:

(a) The cell (1mark)

………………………………………………………………………………………………………

b).Micro-organism (1mark)

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8. In what **two** ways does excretion differ between plants and animals? (2marks)

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9. State the importance of Locomotion in a living organism (2marks)

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10. Name the branch of Biology that deals with the study of Fungi. (1mark)

…………………………………………………………………………………………………….

11. State the importance of each of the following in living organisms: (2marks)

(a) Nutrition

………………………………………………………………………………………………

b).excretion.

……………………………………………………………………………………………………

12. What do the following branches of Biology entail? (2marks)

(a) Cytology

…………………………………………………………………………………………………..

(b) Entomology

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13. a) Under which of the following magnifications would one see a larger part of the specimen X 40 or X500? Give a reason. (3 marks)

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b) State how magnification is worked out in a light microscope. (1mark)

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