**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.

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

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.

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

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)

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

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

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

7. Give the name to the study of:

(a) The cell (1mark)

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

b).Micro-organism (1mark)

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

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

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

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

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

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

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

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)

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

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

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