**FORM THREE**

**BIOLOGY**

**TIME: 1 HOUR.**

**NAME: ………………………………………………………………………**

**ADM NUMBER: ……………………………**

***Answer ALL the questions in the spaces provided.(30 marks)***

1. Which **two** classes of phylum arthropoda have their head fused with the thorax? (2 marks)

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

2. State three features that a grasshopper, a crab, a spider and a millipede have in common.

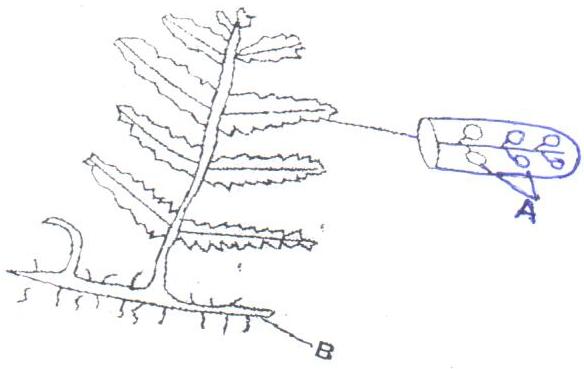
(3 mark)

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

3. State two characteristics of Eukaryotes. (2 marks)

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

4. The diagram below represents a fern.



1. Name parts labelled A and B. (2mks)

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

1. In which division does the plant belong? (1mk)

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

1. State the function of the part labelled A. (1mk)

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

5. What is the importance of the following in an ecosystem? (2marks)

1. Decomposers

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

1. Predation

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

6. (a) State **two** functions of bile juice in the digestion of food. (2marks)

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

(b) How does substrate concentration affect the rate of enzyme action? (1mark)

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

7. Name the features that increase the surface area of small intestines. (2marks)

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

8. (a) Define the following terms. (2marks)

1. Population

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

1. Community

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

(b) Name a method that could be used to estimate the population size of the following organisms.

1. Fish in a pond. (1mark)

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

1. Black jack in a garden (1mark)

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

9.Giving a reason in each case, name the class to which each of the following organisms belong: (4marks)

Pea plant

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

Reason

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

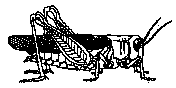
Bat

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

Reason

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

10.The diagram below represents a member of the kingdom Animalia.



1. Name the phylum to which the organism belongs. (1mark)

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

ii).Using observable features in the diagram, give three reasons for the answer in (i) above.(3marks)

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