**MILIMANI COMPLEX HIGH SCHOOL**

**FORM THREE, MID-TERM II 2014**

**BIOLOGY. TIME: 2 HOURS**

**Instructions:**

Answer the questions in the answer booklet provided.

Drawing be done using pencil

No reference material required.

**Section A**

1. (a) What is the function of the pooter . (2 Mks)

(b)Give any three precautions during collecting and observation of specimen.(3 Mks)

(c)A vehicle locomotes and excretes and yet are not living things. Explain (3 Mks)

2. Study the structure below

Diagram

1. Name the structure above (2 Mks)
2. Name part X, Y, Z (3 Mks)
3. How is the structure adapted to gaseous exchange (4 Mks)
4. How is structure X adapted to gaseous exchange (4 Mks)
5. (a)What is respiration (2 Mks)

(b)Name two types of respiration (2 Marks)

(c)Give three factors affecting respiration (3 Marks)

(d)Give any two application of anaerobic respiration (2 Marks)

4. (a)Give four methods of used to estimate population. (4 Marks)

(b)The table below shows stomata distribution in Leaf X and Y.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Leaf Surface | X | Y |
| No. of stomata | Upper surface  Lower surface | 29  0 | 4  18 |
| Surface area |  | 26cm2 | 14cm2 |

1. Give the habitat of leaf X and the reason. (3 Marks)
2. Give the habitat of leaf Y and give the reason (3 Marks)

**B. Essay**

1. Describe the movement of water and mineral salts from roots to the leaves. (20 Marks)
2. Describe the digestion in human being. (20 Marks)

**C. Practical**

1. Study the specimen

Diagram (a) Name its phylum (1 Mark)

(b) (i) Class which it belongs to (1 Mark)

(ii)Give a reason for the answer in b(i) above. (1 Mark)

(c) Name part ABCD. (4 Marks)

(d) How is it adapted to its functions. (3 Marks)

2. A transverse section of specimen M was given below.

Diagram (a) (i) Classify the specimen. (1 Mark)

(ii) Give a reason (1 Mark)

(b)Name part ABCD. (4 Marks)

(c) Vitamin C was transferred in specimen M .

(i) Complete the food test below (3 Marks)

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Procedure | Observation | Conclusion |
|  |  |  | Vitamin C present |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

1. A patient was diagnosed to lack vitamin C in his/her body. What disease was she suffering from? (1 Mark)