**HOLA SECONDARY SCHOOL**

**BIOLOGY**

**MID TERM EXAMINATION**

**YEAR 2017**

**TERM TWO**

**FORM ONE**

**TIME:**

**NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_CLASS\_\_\_\_\_\_\_\_\_ADM/NO.\_\_\_\_\_\_\_\_\_\_\_**

1. Define the term Biology. (2mks)
2. List 2 and explain two main branches of biology. (2mks)
3. List 4 main importances of studying biology in Kenyan schools. (2mks)
4. List and explain 5 characteristics that animals share with plants. (5mks)
5. List the functions of the following apparatus used to collect and observe specimens.
6. Pooter
7. Bait trap
8. Fish net (3mks)
9. List w main differences between plants and animals. (2mks)
10. Katana a form one student was observing a butterfly using a hand lens. He drew the structure of the butterfly as show.

If the length of the actual butterfly was 1.7 cm. Calculate the magnification of the drawing. (3mks)

8a) List 2 importance of classification. (2mks)

b) List five major kingdoms. (5mks)

c) List 2 characteristics of species group. (2mks)

d) Mathenge plant belongs to genus prosopis and species Juliflora. Write the scientific name of the Mathenge plant. (1mk)

1. State the functions of the following parts of a microscope.
2. Coarse adjustment knob
3. Diaphragm
4. Revolving nose-piece
5. Condenser
6. Base (5mks)
7. If the eye piece lens has a magnification of x5 and the low power objective lens has a magnification of x10, calculate the total magnification. (2mks)
8. List 3 differences between a light microscope and an electron microscope. (3mks)
9. State the functions of the following organelles.
10. Ribosomes
11. Golgi bodies
12. Smooth endoplastic reticulum
13. Centrioles
14. Vacuole

13. List 2 uses of the following tissues.

1. Epithelial tissue
2. Skeletal muscle
3. Vascular bundle

14. In an experiment by form two students viewed 6 cells across the diameter of a field of view. The diameter of field of view was 6mm. Calculate the diameter of one cell. (1mm = 1000µm) 3mks)