

**KIPSUTER BOYS SECONDARY SCHOOL**

**CAT 1 TERM 2, 2017**

**FORM ONE**

**BIOLOGY**

Name: \_\_\_\_\_ Adm. No. \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

**Instructions:**

- i). Write your name, admission number, class & date in the spaces provided above.*
- ii). Check the question paper to ascertain that all pages are printed as indicated and that no question is missing.*
- iii). Answer **ALL** questions in the spaces provided after each question.*

**1. Name **two** main branches of biology. (1mk)**

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.....

**2. Name the branch of biology that deals with the following: (2mks)**

a) Insect

.....

b) Inheritance

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**3. a) Name the cell organelle that perform the following function: (3mks)**

i). Energy production

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ii). Transport of protein

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iii). Formation of lysosomes

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**b) State **three** precautions that one should take when collecting a specimen. (3mks)**

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.....

4. State **five** differences between **animals** and **plants**. (5mks)

	<b>Plants</b>	<b>Animals</b>
i).		
ii).		
iii)		
iv).		
v).		

5. The scientific name for lion, wolf and leopard are *Panthera leo*, *Canis lupus* and *Panthera pardus* respectively.

a) Which of the organisms are more related? Give a reason. (2mks)

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b) i)What does *Canis* refer to? (1mk)

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ii)Explain why the lion and the leopard cannot reproduce. (1mk)

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6. A form one student observing onion epidermal cells under the low power objective counted 5 cells on a field of view measuring 5mm.

Estimate the size of one cell. (1mk)

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7. a)State the functions of the following parts of a microscope: (3mks)

i). Condenser

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.....

ii). Stage

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.....

iii).Base

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.....

b) State two uses of a microscope. (2mks)

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.....

8. a)State the use of each of the following apparatus:(3mks)

i). Sweep net

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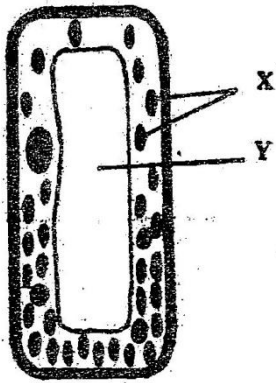
ii). Pooter

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iii).Bait trap

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b) The diagram below represents a cell.



i)Name the parts labelled X and Y. (2mks)

X.....

Y.....

What is the formula for calculating linear magnification of a specimen when using a hand lens?

(1mk)

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.....

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