

GATITU SECONDARY SCHOOL, P.O. BOX 927 – 01030, GATUNDU

FORM 1 BIOLOGY END OF TERM I EXAMINATION. 2015

1. Name the characteristic of living things displayed by each of the following organisms.

i) A cow drinking water _____ (1mk)

ii) A germinating maize grain _____ (1mk)

iii) A person breaking food to produce energy _____

iv) A cat urinating _____

2) (i) Distinguish between movement and locomotion. (2mks) _____

ii) State two importance of locomotion in animals. (4mks)

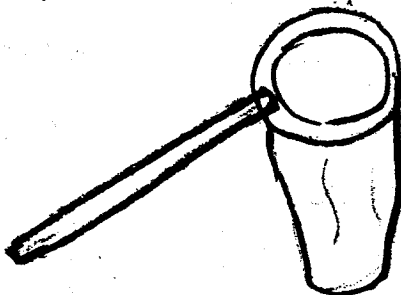
(a) _____

(b) _____

iii) How do plants compensate for lack of their ability to locomote? (2mks)

3) The diagram below shows common apparatus used in collection of biological specimen. Identify each and state its use;

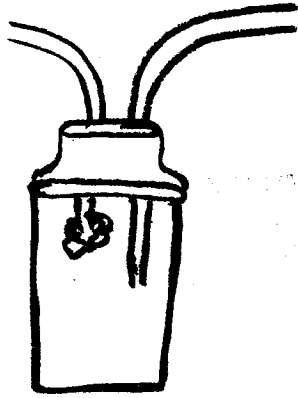
a)



i) Identify (1mk) _____

ii) Use (2mks) _____

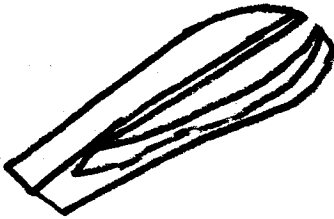
b)



i) Identify(1mk)

ii) Use (2mks)

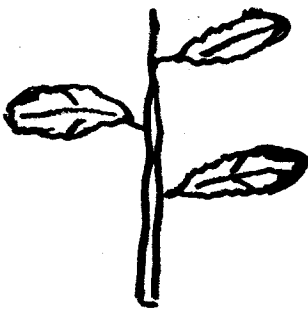
c)



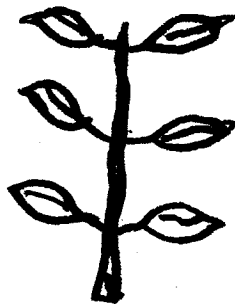
i) Identify(1mk)

ii) Use (2mks)

4) The diagram below shows a leaf arrangement on a stem. Study the diagram and answer the questions that follow.



A



B



C

i) Identify each of the leaf arrangements.

A).....(2mks)

B)..... 2mks)

C)..... 2mks)

ii) State two observable differences between leaf A and B. (4mks)

A	B
i)	
ii)	

5 a) Give the formula for calculating drawing magnification. (2mks)

b) A leaf drawn with a hand lens measured 10 cm long. The actual length of the leaf was 5 cm. Work out the magnification of the drawing. (4mks)

c) A drawing of 5 cm was made of a beetle. Further calculation showed that this was equivalent to magnification of five times. Calculate the actual length of the beetle. (4mks)

6) The biological name of a house fly is *Musca DOMESTICA*.

a) State two mistakes in the way the biological name is written (4marks)

(i) _____

(ii) _____

b) Write the name in the correct manner following the rules of binomial nomenclature. (2mks)

c) Distinguish between natural and artificial classification. (2mks)

7) Complete the taxonomic table below. (10mks)

TAXON	HUMAN BEINGS	LION	MAIZE
Kingdom			
Phylum		chordata	Angiospermophyte
Class			Monocotyledonae
Order	Primates	Carnivora	Graminates
Family	Hominidae	Felidae	Graminae
Genus	Homo	Panthera	
Species		Leo	mays

b) From the table write the scientific name for;

Human beings- _____

Lion- _____

Maize- _____

(6mks)

8) List 4 differences between animals and plants (8mks)

Animals	Plants
i)	
ii)	
iii)	
iv)	

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b) A form one text book (KLB) has a photograph of a student on its front cover using some biological equipment. Name 5 of these equipment seen on the photograph. (5mks)

- a)
- b)
- c)
- d)
- e)

c) What is the approximate weight of the biology text book (KLB) that we use in Form 1. State weight in grammes. (2mks)