Name:	Adm No:
School:	Candidate's Sign:
Date:	

TIME: 2 HOURS MID-TERM 2

BIOLOGY

TOPSKILLS PUBLISHERS EXAMS BiologyFORM 1

BIOLOGY

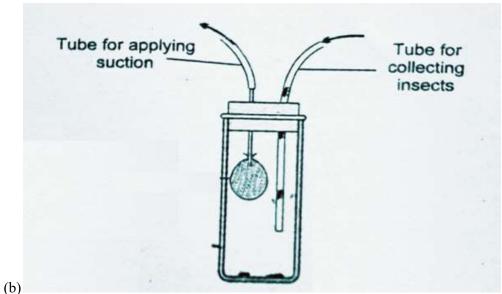
INSTRUCTIONS TO THE CANDIDATES:-

- Write your **name** and **Admission number** in the spaces provided.
- Answer *all* the questions in the spaces provided.
- Mathematical tables and electronic calculators may be used
- All working MUST be clearly shown where necessary.

For Examiner's Use Only:

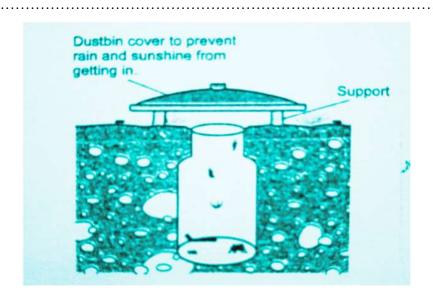
Question	Maximum score	Candidate's score
1-16	100 MARKS	

1.	Biology is derived from two Greek words bios and logos. What is the meaning of	
	Bios	(1mk)
•••	Logos	(1mk)
2.	List three main branches of biology and for each give its definition	(6mks)
•••		
•••		
3.	Describe six characteristics observed among living organisms	(12mks)
•••		
•••		
•••		
•••		
•••		
•••		
4.	Identify the following apparatus and for each state the function	(6mks
	Handle Net	
	Name	
•••		
	Function	



Name

Function



(c) Name

Function

5. Outline the four precautions to be observed during collection and observations of organisms during practical study. (4mks)

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6. The diagram below shows an instrument used in the laboratory	
(a) Name the instrument	(1mk)
(b) Label the parts X	(3mks)
Y	
Z	
(c) What is the function of the instrument?	
(d) The student observed the housefly whose actual length was 8cm. she was above 6(a) above and the total magnification was X4. Calculate the leavest working.	used the apparatus named
7. (a) What is classification?	(1mk)
(b) What is the need for classification?	(4mks)

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8. Fill the table below by identifying the correct kingdom and appropriate representative in each case (5mks)

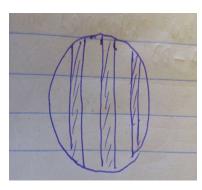
kingdom	representative
a)	Hydra
b)	Protozoa
c)	Yeast
d) Monera	
e)	Garden pea

a) Distinguish between magnification and resolution	(2mks)
b) Fill the table below	(3mks)

Eye-piece lens	Objective lens	Total magnification
X30	(i)	X600
X14	X5	(ii)
(iii)	X40	X2000

c) Study the diagram below and answer the questions that follow

The diagram represents the field of view observed under the light microscope during the form one practical lesson.



 Show your working.	(3mks)

10. What is the importance of the following practices in biological preparation of the specimen?i) Cutting very thin sections	(1mk)
ii) Staining the cells using common dyes	(1mk)
iii) Adding <u>a drop</u> of water on the cell	(1mk)
11. Distinguish between unicellular and multicellular organisms.	(2mks)
12. Identify three types of cells found in plants.	(3mks)
13. The figure shows a microscope	
a) Name the parts of the microscope shown below.	(4mks)
A	
C	
J	• • • • • • • • • • • • • • • • • • • •

D	
b) State the functions of the parts B	(5mks)
E	
F	
G	
Н	
14. State three importance of studying biology	y (3mks)
15. For the table below, identify the cell organ CELL ORGANELLE	nelle and state the appropriate function (10mks) FUNCTION
a) Cell wall	
b)	Add carbohydrates to protein and transport them in the cell
c) Nucleus	
d) Nucleolus	
e)	Protein synthesis
f) Chloroplast	
g)	Contain lytic enzymes
h) Rough endoplasmic reticulum	
i)	Transport lipids

j)	Site for respiration	
16. Name the taxonomic units of classification		(7mks)
17. (a) What is the name given to the double na	aming of living organisms?	(1mk)
(b) The scientific name of a cat is <i>Felis cat</i>	tag Which toyonomic around does the nor	T. P 1
refer to?	<u>as.</u> which taxonomic group does the nam	(2mks)
	<u>as.</u> which taxonomic group does the nam	
refer to?	which taxonomic group does the nam	
refer to? Felis		
refer to? Felis Catas		(2mks)
refer to? Felis Catas		(2mks)
refer to? Felis Catas		(2mks)
refer to? Felis Catas		(2mks)
refer to? Felis Catas		(2mks)
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