Name:	Adm No:
School:	Candidate's Sign:
Date:	
BIOLOGY	
TIME: 2 HOURS	

2019 TERM 2 EXAM Biology FORM 1

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	

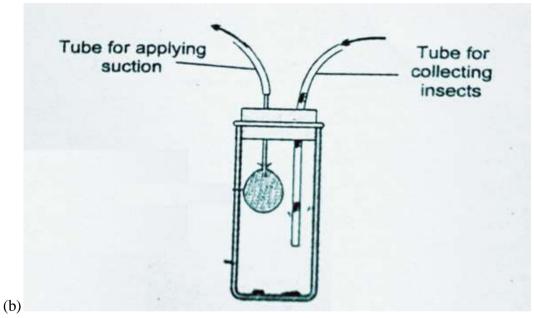
1.	Biology is derived from two Greek words bios and logos. What is the meaning of	
	Bios	(1mk)
•••	Logos	(1mk)
2.	List three main branches of biology and for each give its definition	(6mks)
•••		
3.	Describe six characteristics observed among living organisms	(12mks)
		• • • • • • • • • • • • • • • •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



(a)

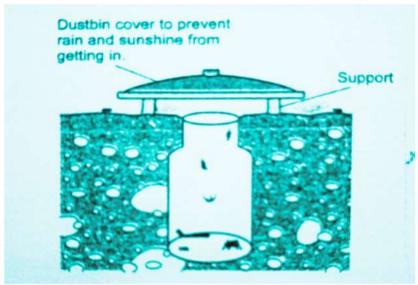
Name

Function



Name

Function



	c) Name		
F	Function		
	ine the four prec	cautions to be observed during collection and observations of org	ganisms during (4mks)
6. The	diagram below s	shows an instrument used in the laboratory	
(a) N	Name the instrum	ment	(1mk)
(b) I	Label the parts		(3mks)

X

e in each case (5mks)
(4mks)
(1mk)
paratus named drawing. Show your (3mks)

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

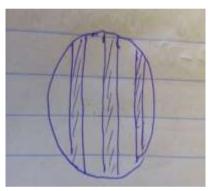
9.

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 specinii) Cutting very thin sections	men? (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	
F C	
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	
1'	
G	
Н	
14. State three importance of studying biology	(3mks)
15. For the table below, identify the cell organe CELL ORGANELLE	lle and state the appropriate function (10mks) FUNCTION
CELL ORGANELLE	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
J/	

16. Name the taxonomic units of classification in order of hierarchy

(7mks)

17. (a) What is the name given to the double naming of living organisms?	(1mk)
(b) The scientific name of a cat is <u>Felis</u> <u>catas</u> . Which taxonomic group does the name refer to?	e <u>Felis</u> and <u>catas</u> (2mks)
Felis	
Catas	
(c) Outline four principles used in double naming system of living organisms	(4mks)