FORM 1 TERM 2 NOVEMBER 2021 BIOLOGY

) Diaphragm		
State the functions of the follow a) Ribosomes	ving cell organelles:	(1mk
b) Lysosomes		(1ml
a) Distinguish between diffusion		(2mks
b) State one hole that is played	by osmosis in:	
i) Plants.		(1mk
ii) Animals		(1mk
	cell that was subjected to a certain treatment.	
The diagram below a red blood At start a) Account for shape of the cell	at the end of the experiment.	(2mks
The diagram below a red blood At start a) Account for shape of the cell	cell that was subjected to a certain treatment. at the end of experiment	(2mk

Plant cells do not burst when immersed in distilled water. Explain	(2mks)
State three functions of Golgi apparatus.	(3mks)
Name one cell organelle found in the actively respiring tissues. (1	mk)
Distinguish between hypertonic and hypotonic solutions. (2	2mks)
The following is a diagram of a light microscope.	
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a) Name the parts labeled A, B, C, D,E,	(5mks)
A	
B	
C	
D	
E	
b) State the functions of parts labeled E and F	(2mks)

Name the organelle that:		
a) Manufacture and transport lipids a	and steroids in a cell	(1mk)
b) Contain enzymes that are capable	of destroying old damaged cells.	(1mk)
c) Control all the processes in a cell.		(1mk)
d) Form Cilia and flagella in cells that	at have them	(1mk)
State the branch of biology that deals (i) Insects	s with the study of :	(2mks)
(ii) The relationship between organism		
Name the filed of science that special	lizes in the study of cells.	(1mk)
State the use of the following apparat	tus.	
i) Pooter.		(1mk)
ii) Sweep net		(1mk)
The scientific name for beans is phos	sedus vulgaris.	
a) What taxan does the term phoseod	lusrepresent.	(1mk)
b) State two rules that are followed w	when giving a scientific name to an organism	(2mks)

16.	List seven life processes/characteristi	cs that must take place in all living organisms.	(7mks)
17.	List seven major taxonomic units of o	classification on living things. In descending order.	(7mks)
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18.	Classify the following organisms into	their kingdoms	(4mks)
	Organisms	Kingdom	
	a) Maize,Beans		
	b) Mushrooms, Yeast		
	c) Protoza, algae		
	d) Bacteria		
19.A	a student was preparing a section of a pla	nt cell to be viewed on a light microscope. Give a r	eason for
each	of the following steps:-		
	(i)Cutting a very thin section	(1mrk)	
	(ii)Staining the section	(1mrk	
	(iii)Putting the section in water	(1mrk	

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		wing terms.	
onomy			(1mrk)
cies			(1mrk)
	• • • • • • • • •		
ite two		functions of a microscope.	(2mrks)
What		11.	(1mk)
 (b)			
	(i)	Entomology	(1mk)
	(ii)	Genetics	(1mks)
	cies	cies tte two main from the what is a celumber (i)	what is a cell. (b) Define the meaning of the following terms (i) Entomology