FORM ONE TERM ONE EXAMS 2017

BIOLOGY Time: 2 Hours FORM ONE

SCHOOLS NET KENYA

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1.	State the functions of the following parts of a light microscope:	(2mks)
	a) Objective lens	
	b) Diaphragm	
	U) Diapinagin	
2.	State the functions of the following cell organelles: a) Ribosomes	(1mk)
	b) Lysosomes	(1mk)
3	a) Distinguish between diffusion and active transport.	(2mks)
	b) State one hole that is played by osmosis in:	
	i) Plants.	(1mk)
	ii) Animals	(1mk)
4.	The diagram below a red blood cell that was subjected to a certain treatment.	
	At start at the end of experiment	
	a) Account for shape of the cell at the end of the experiment.	(2mks)
	b) Draw a diagram to illustrate how a plant cell would appeared if subjected to the same treatment.	(1mk)

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	emks)
a) Name the parts labeled A, B, C, D,E,	(5mks
A	(======
B	
C	
C	
C	(2mks
C D E b) State the functions of parts labeled E and F	(2mks)
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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 have them	(1mk
State the branch of biology that deals with the study of : (i) Insects	(2mks)
(ii) The relationship between organisms and their environment.	
Name the field of science that specializes in the study of cells.	(1mk)
State the use of the following apparatus. i) Pooter.	(1mk)
ii) Sweep net	(1mk)
The scientific name for beans is phoseodus vulgaris. a) What taxan does the term phoseodus represent.	(1mk)
b) State two rules that are followed when giving a scientific name to an organism	(2mks)
Compare the structure of plant and animal cells.	(4mks)

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List seven major taxonomic units	s of classification on living things. In descending order.	(7m
Classify the following organisms	s into their kingdoms	(4mk
Classify the following organisms Organisms	s into their kingdoms Kingdom	(4mk
		(4mk
Organisms	Kingdom	(4mk
Organisms a) Maize, Beans	Kingdom	(4ml
Organisms a) Maize, Beans b) Mushrooms, Yeast	Kingdom	(4mk
Organisms a) Maize, Beans b) Mushrooms, Yeast c) Protozoa, algae d) Bacteria	Kingdom	
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20. Explain the following terms.

a) Taxonomy (1mrk)

b) Species		(1mrk)
21. State t	two main functions of a microscope.	(2mrks)
(a) Wh	hat is a cell?	(1mk)
(b)	Define the meaning of the following terms	
	(i) Entomology	(1mk)