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	231/1	
	BIOLOGY	
	PAPER 1	
	THEORY	
	JULY / AUGUST 2007	
	TIME: 1 ½ Hours	

NAROK DISTRICT MOCK EXAMINATION – 2007

Kenya Certificate Of Secondary Education (KCSE)

231/1 BIOLOGY PAPER 1 THEORY JULY / AUGUST 2007 TIME: 1 ½ Hours

INSTRUCTIONS TO CANDIDATES

• Answer ALL questions in the paper in the spaces provided

For Examiner's Use Only

Question	Maximum Score	Candidate's Score
1 – 32	80	

This paper consists of 8 printed pages.

Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing

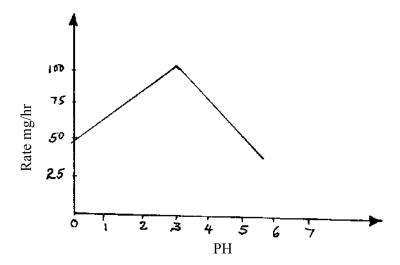
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Biology 231/1

Turn Over

1.	How are the anthers of insect pollinated flowers suited to their function.	(2mks)
2.	State two effects of adrenaline hormone in a human body.	(2mks)

3. The graph below show the effect of pH on the rate of activity of a digestive enzyme found in human.



a) What is the optimum pH for the enzyme?	(1mk)
b) Name the part of the alimentary canal the enzyme would be active.	(1mk)
c) Suggest the name of the enzyme.	(1mk)

4. A student caught an animal with the following characteristics. Two body parts simple eyes four parts of legs.

a) To which class does the	animal belong.	(Imk)
• • • • • • • • • • • • • • • • • • • •		

b) Name the type of skeleton found in the animal.	(1mk)
Name two mechanical support tissues in higher plants.	(2mks)
The diagram below represents a part of the lower epidermis of a leaf	
Nucleus Stoma	
a) Name the cells labelled X and Y. X	(2mks)
Y	
b) State the function of the cell labelled Y.	(1mk)
State two kinds of materials that would be used in cleaning dirty lenses in the car microscope.	re of (2mks)
The diagram below shows the generalised structure of a cell. Study it and answe questions that follow.	er the
A C	
(i) Identify the parts labelled B and C above.	(2mks)
В	
C	

	(ii) State one role of the part labelled A	(1mk)
9.	State two properties of a cell membrane.	(2mks)
10.	Mention three animal structures which are used as surfaces of gaseous exchange.	
11.	State the differences between open and closed circulatory systems.	(2mks)
12.	Name the method of feeding shown by Amoeba.	
13.	In four O'clock flower a pure breed red flowered plant was crossed with a pure b flowered plant. All the F ₁ plants had pink flowers. Show how the pink flowered plants were obtained. (Use punnet square)	(3mks)
14.	(i) Define the term "eye accommodation".	(1mk)
	(ii) State adaptations of the following parts of the mammalian eye.(a) Iris(b) lens	(2mks)

	Name three applications of genetics.	(3mks)	
16.	The figure shows a food web which includes some organisms in the African grasslands.		
	Scop owl Ox pea	cker bird	
	Elephant shrew chameleon	Tick	
	Grasshopper Click beetle	water buffalo	
	Grass		
	a) Draw a food chain consisting of four organisms. The org		
	web.	(1mk)	
	b) Using examples from the food web explain the difference	e between producers and	
	b) Using examples from the food web explain the difference consumer.	e between producers and (2mks)	
	consumer.		
17.			
17.	consumer.		
17.	consumer.		
17.	consumer.		
17.	The figure below represent type of muscles.		

For

		Turn Over
E	Describe how you can use the belt transect to estimate the size of a plant population	ion. (3mks)
	ii) Name the two components of the pollen tube.	(2mks)
. (1	i) Other than corpus luteum, name another site for the secretion of hormone pro	gesterone. (1mk)
	Give two reasons why the bark is important in plant.	(2mks)
	ii) Name two characteristics of Meristems.	(2mks)
	i) Name the gland that secretes juvenile hormone.	(1mk)
	Give two advantages of natural selection.	(2mks)
S	State two ways in which plants compensate for lack of movement.	(2mks)
b	Name two parts of the human body where this type of muscle can be found.	(2mks)

24.	(i) Identify the process through which intercellular fluid is formed in the body.	(1mk)
	(ii) Name the end products of the following processes in the liver	(2mks)
	a) Deamination	
	b) Destruction of worn out red blood cells.	
25 (*)		
25. (1)	Explain how vasodilation increases heat loss through the skin.	(2mks)
26.	Give two effects of lactic acid accumulation in the muscles.	(3mks)
27.	Give two reasons why diffusion alone is able to meet the gaseous requirements o	f protozoans.
		(2mks)
		•••••
20	State the male of combon (IV) evide in the blood	(21-a)
28.	State the role of carbon (IV) oxide in the blood.	(3mks)
		• • • • • • • • • • • • • • • • • • • •

A certain food is suspected to have proteins. What chemical would you use to oppresence of proteins.	confirm the (1mk)
(ii) Describe the procedure you would use to give the expected results.	(2mks)
Define the following terms. (i) a synapse.	(2mks)
(ii) Synapsis	
The diagram below represent a vertical section of a fruit. Fibrous air filled mesocory Endosperm Water filled cavity Water proof endocarp	p
a) Suggest the possible agent of dispersal of the above fruit.	(1mk)
b) Give features that adapt it to the agent of dispersal named in (a) above.	(2mks)
State two reasons why scientific names of organism are preferred to common names or organism are preferred to comm	ames. (2mks