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NAME	INDEX NO	•••
SCHOOL		· • • • •
231/1 BIOLOGY		

BIOLOGY PAPER 1 THEORY JULY / AUGUST 2007 1 ½ HOURS

KAKAMEGA DISTRICT MOCK EXAMINATION Kenya Certificate of Secondary Education 2007

231/1 BIOLOGY PAPER 1 JULY / AUGUST 2007 TIME 1 ½ HOURS

INSTRUCTIONS TO CANDIDATES

- ❖ Answer ALL questions in this paper in the spaces provided.
- * Additive pages must not be inserted.
- ***** Candidates may be penalized for false information.

•	Account for the differences in thickness of cell walls of a guard cell.	(2mks)
	Below is a diagram showing parts of a synapse observe and other the questions th	at follow.
	B IMPULSE FLOW	
	C	
	(a) Name the parts labeled:	(2mks)
	A	
	В	
	(b) What is the role of part labeled C.	(1mk)
•	State four ways by which the structure of phloem is adapted to its function.	(4mks)
	Name the two nucleic found in a mature pollen grain.	(2mks)
(a) What is a food web?	(2mks)
. (a	, 11 Hat 15 tt 100tt Web:	(2111K5)

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9.	What name is given to the tissue that joins? (a) Bone to bone?	(2mks)
	(b) Muscle to bone?	
10.	The diagram below represents an organism in the lower levels.	
	Chloroplast	
	(a) In which Kingdom does the organism belong?	(1mk)
	(b) Name the structure labeled A and state its function.	(1mk)
11. B	Bony fishes have streamlined body and have a lateral line. Give a reason w	
c	haracteristic Features.	(2mks)
	Briefly explain why active transport rate increases when oxygen concentrate voter plants	
W	vater plants.	
13. A	A man had an accident and he lost balance and memory. Name the part of	the brain that might
	ave been damaged.	(2mks)
		,

14. In o	cold weather Kittens feed frequently than adult cuts. Give a reason for this observation.	(2mks)
15. (a)	The tracheal have a liquid at the endings. State one reason for this.	(2mks)
(b)	Why is the skin of amphibians like frogs highly folded?	(2mks)
16.	Distinguish between diabetes insipid us and diabetes mellitus.	(2mks)
17. The	e diagram below represents the structure of a leaf.	
	1.eaflets	
	Identify the leaf represented in the diagram.	(1mk)
	nen raw sea wage is disposed in a river the population of mobile aquatic animals reduce river. Briefly explain the effect of raw sea wage on the population of aquatic animals in	
rive	er.	(2mks)

29.	Give three events that follow a flower after fertilization.	(3mks)
30.	A DNA strand with the following base sequence was used in the formation of RNA. G- A- T- C- A- G.	
	(a) Give the base sequence on the RNA.	(1mk)
	(b) Give two differences between DNA and RNA.	(2mks)
31. (a)	Define the term Binomial nomenclature.	(1mk)
(b)	Name two rules used in Binomial nominative.	(2mks)
32.	State three adaptations of erythrocytes that make them to fulfill the functions.	(3mks)
33.	State the functions of human lungs.	(2mks

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