NAME:	INDEX NO:
SCHOOL .	
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231/1 BIOLOGY PAPER 1 THEORY JULY / AUGUST 2007 2 HOURS

BUNGOMA DISTRICT MOCK EXAMINATION Kenya Certificate Of Secondary Education 2007

231 / 1 BIOLOGY PAPER 1

INSTRUCTIONS TO CANDIDATES

❖ Answer ALL questions in this paper in the spaces provided.

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	TOTAL

This paper consists of 8 printed pages. Candidates should check the question paper to ensure that all the pages are printed as indicates and no questions are missing.

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16. **Study** the table below and till the blank spaces (3marks)

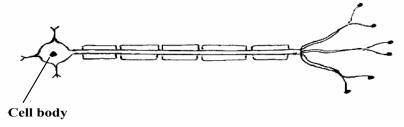
ORGAN	HORMONE	FUNCTION
Pituitary		(i) Causes ovulation (ii) Stimulate production of progesterone
Ovarian tissue	Oestrogen	
Pituitary	Follicle stimulating Hormone	

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17.	State three ways in which the vesse out their functions.	els that link arterioles with venules are s	suited to carrying (3marks)
18.	(a) How do the following factors af(i) Surface area to volume rat		(3marks)
	(ii) Diffusion gradient		
	(iii) Temperature		
	(b) Name the physiological proce	ss that requires energy to occur.	(1mark)
19.	(a) Define the term habitat		(2marks)
	(b) Explain how competition is a fa	actor that regulate the animal population	
20.	State three adaptations of the mam the blood stream.	nmalian Nephron to reabsorption of usef	ful substances into (3marks)

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21. The diagrams below repents a nerve cell



	Cell body	
	(a) Identify the nerve cell.	(1mark)
	(b) (i) Give a reason for your answer in (a) above	(1mark)
	(ii) Show by use of an arrow the direction of flow of the nerve impulses.	(1mark)
22.	State how excessive use of agrochemicals affects the large water bodies.	(2marks)
23.	(a) State the functions of each of the following cell organelles (i) Golgi bodies	(2marks)
	(ii) Smooth Endoplasmic	
(b) Name two structures that are found in plant cells but absent is animal cells.	(2marks)
24.	Explain how the Mammalian alveoli are suited to gaseous exchange	(3marks)
• • •		

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25.	(a) Name three limiting factors that affect the rate of photosynthesis	(3marks)
	(b) Which of the limiting factor is used in the dark stage of photosynthesis?	(1mark)
26.	The diagram below illustrates a certain eye defect.	
	(a) State the eye defect in the above diagram	(1mark)
	(b) (i) State the cause of the above eye defect	(1mark)
	(ii) What role does the concave lens play in the correction of the above de	fect? (2marks)
27.	(a) Nitrogen in the atmosphere can not be directly utilized by plants. State two which this Nitrogen is made available for plant use.	ways by (2marks)
	(b) State the importance of saprophytic bacteria in the environment.	(2marks)