MOI HIGH SCHOOL
KABARAK

FORM 3 2026 END TERM 3 EXAMS

Paving Way For Kenya Certificate of Secondary Education Success

Name …….. Admission no…….

Candidate's Signature…… Date…….

FORM 3

BIOLOGY

PAPER 2

TIME: 2Hours

INSTRUCTIONS TO CANDIDATES

a) *Answer all question to section A in the spaces provided.*
b) *In section B answer question 6 (compulsory) and either question 7 or 8 in the spaces provided after question 8.*
c) *This paper contains 9 printed pages*

FOR EXAMINER'S USE ONLY

Section	Question	Maximum Score	Candidates Score
A	1	8	
	2	8	
	3	8	
	4	8	

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	5	**8**	
B	**6**	**20** **20**	
TOTAL SCORE		**80**	

SECTION A (40 MARKS)

Answer all the questions in this section in the spaces provided.

1. a) Distinguish between guttation and transpiration. **(2mks)**

.

b) State the significance of transpiration to a plant. **(3mks)**

.

c) State the structural differences between arteries and veins **(3mks)**

Arteries	veins

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2. The diagram below represents a n organ in a bony fish.



a) Name the organ. **(1mk)**

._____

_____

b) On the diagram label the three parts of the organ. **(3mks)**

._____

_____

_____

_____

c) Describe how the part labeled L is adapted to its functions. **(4mks)**

._____

_____

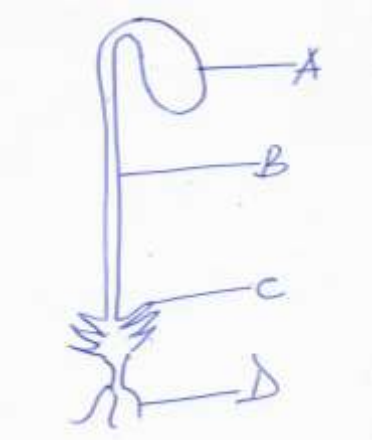
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3. a) The diagram below represents a plant in the division Bryophyta.



i. Name the parts labeled B and D. **(2mks**

B…….

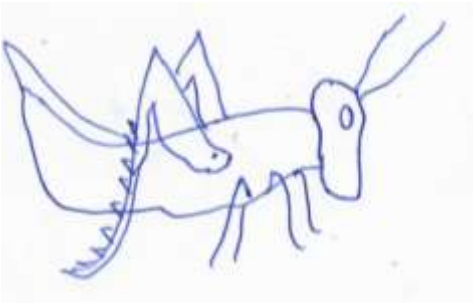
D……..

ii. State one function for each of the parts labeled A and C. **(2mks)**

A……..

C……

b). The diagram below represents a member of Kingdom Animalia.



i. Name the phylum to which the organism belongs. **(1mk)**

._____

ii. Using observable features in the diagram give three reason for the answer in (b) (i) above. **(3mks)**

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4. The equation below represents a process that takes place in plants.

$6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2$

a) Name the process. **(1mk)**

._____

b) State two conditions necessary for the process to take place. **(2mks)**

._____

_____

c) State what happens to the end –products of the process. **(5mks)**

._____

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5. a) State the function of a mirror in a light microscope. **(1mk)**

._____

b) Give reasons why the coarse adjustment knob should not be used to lower the high power objective lens. **(2mks)**

._____

_____

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c)(i).State four differences between electron microscope and light microscope. **(4mks)**

Electron microscope	**Light microscope**

ii) Give a reason for staining cells before viewing. **(1mk)**

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SECTION B (40 MARKS)

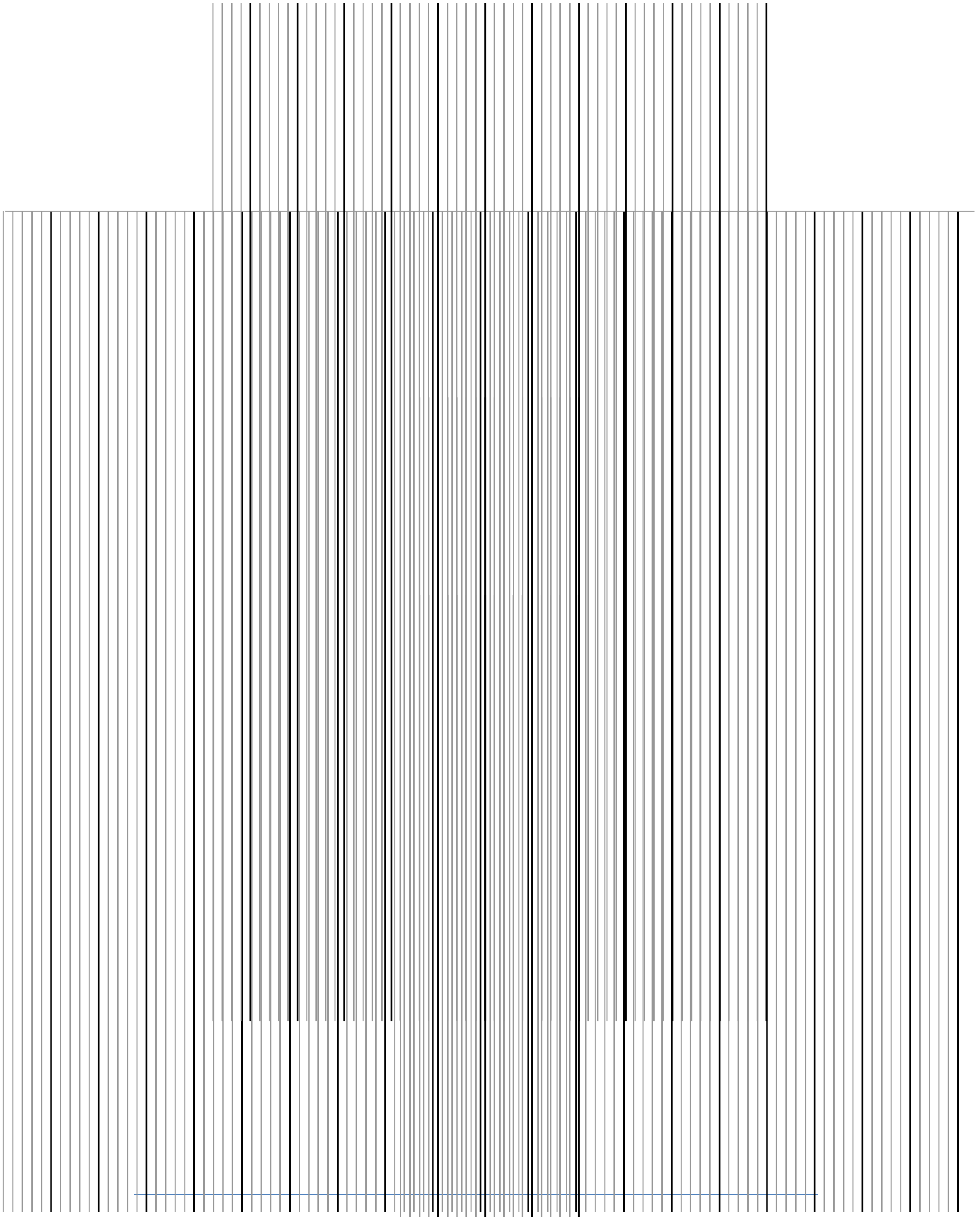
answer question 6 (Compulsory) and either question 7 or 8 in the spaces provided after question 8.

6. A scientist carried out an investigation to find out the population growth of mice under laboratory conditions. Twenty young mice were placed in a cage. The results obtained from the investigation were as shown in the table below.

Time in months	0	2	4	6	7	10	12	16	18
Number of mice	20	20	65	115	310	455	450	145	160

a) On the grid provided draw a graph of the number of mice against time. (6mks)

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b) Account for the changes in mice population between

i. 0 to 2 months. **(2mks)**

._____

_____

ii. 2 to 6 months ` **(2mks)**

._____

_____

iii. 6 to 10 months **(2mks)**

._____

_____

iv. 10 to 12 months **(2mks)**

._____

_____

c) I) between which two months was the population change greatest? **(1mk)**

._____

II) Calculate the rate of population change over the period in (c) (i) above. **(2mks)**

._____

d) What change in population would be expected if the investigation was continued to the 19^{th} month. **(1mk)**

._____

e) To obtain the observed results state two variables that were kept constant during the investigation. **(2mks)**

._____

_____

7. Describe the role of hormones in the human menstrual cycle. **(20mks)**

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8. (a) Explain how excretion take place in plants. **(4mks)**

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(b) Describe the role of the human skin in homeostasis. **(16mks)**

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