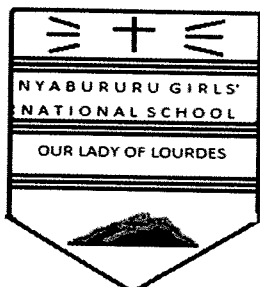


NAME.....CLASS..... ADM NO.....
SIGNATURE.....



DATE DONE.....
INVIGILATOR
DATE RETURNED
DATE REVISED.....

231/1
BIOLOGY MAKE-UP
FORM TWO
TERM TWO 2016
TIME: 2 HOURS

INSTRUCTIONS TO THE CANDIDATES:-

- Write your **name**, **class** and **admission number** in the spaces provided.
- Answer **all** the questions in the spaces provided. .
- All working **MUST** be clearly shown where necessary.

For Examiner's Use Only

Questions	Maximum score	Candidate score
1 -25	80	

This paper contains 8 printed pages

1. Which organelle would be very abundant in:-

(a) Palisade cell

(1 mark)

.....
.....

(b) Sperm cell

(1mark)

.....
.....

2. Photosynthesis takes place in two stages. Name the part of the chloroplast where:-

(a) Light stage occurs

(1 mark)

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.....

(b) Dark stage occurs

.....
.....

(c) How is dark stage dependant on the light stage of photosynthesis?

(2 marks)

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.....

3. State two adaptations of a leaf to photosynthesis.

(2mks)

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4. State two importances of classification (2 marks)

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5. Describe process of inhalation in man. (6mks)

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6. State one disadvantage of taking a diet without roughage for many days. (1 mark)

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.....

7. The scientific name of a human being is Homo Sapiens.
(a) Name the above method of naming organisms. (1mark)

.....
.....

(b) Give two advantages of using the above method of naming organisms, instead of using vernacular names. (3 marks)

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.....
.....

8. The equation below shows what happens in cellular respiration.
 $C_6H_{12}O_6 + 6O_2 \longrightarrow 6CO_2 + 6H_2O + \text{Energy}$

(a) Name the type of respiration shown and where it occurs in the cell. (2marks)

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(b) Determine respiratory quotient of the process. (2marks)

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(c) What food substrate is broken down in the above respiration? (1 mark)

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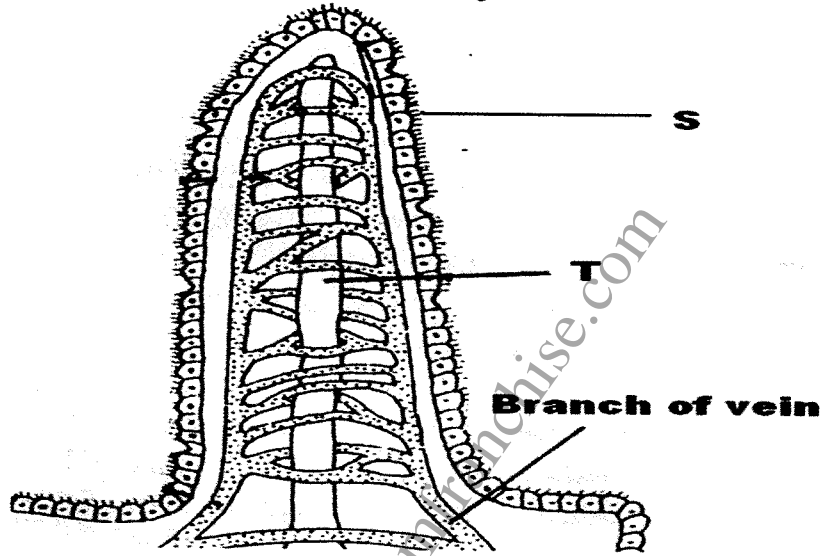
9. state the importance of transport system in organisms. (3mks)

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10. What is double circulation?

(1mk)

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11. The diagram below represents the ileum lining.



(a) Name the structure and its function.

(2 marks)

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.....
(b) Name parts:-

S -

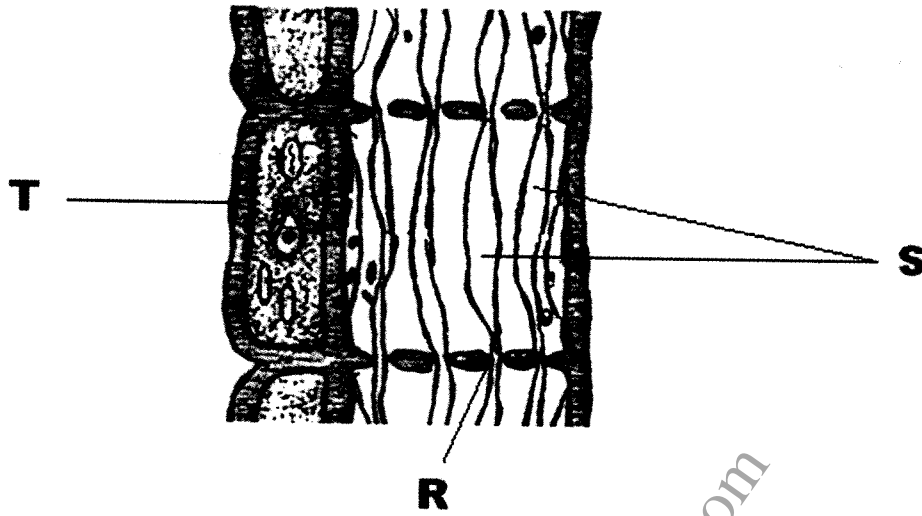
T -

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12. State three ways in which spread of HIV/AIDS can be controlled.

(3 marks)

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13. Below is the structure of a phloem tissue.



- (a) (i) Name T _____
 (ii) Structure R _____

(1 mark)

(1 mark)

- (b) State the function of structures S

(1 mark)

.....

- (c) Name one organelle abundant in structure T.

(1 mark)

.....

14. State any 3 properties of enzymes.

(3 marks)

.....

15. (a) State one advantage of heterodonts over homodonts.

(1 mark)

.....

(b) Below is a dental formula of an organism

$$I \frac{0}{3} \quad c \frac{0}{1} \quad pm \frac{3}{3} \quad m \frac{3}{3}$$

- (i) What is the total number of teeth in the organism?

(1 mark)

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...
(ii) Name the diet of the organism, and give one reason for your answer. (2 marks)

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16. (a) Distinguish between egestion and excretion (2 marks)

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(b) Name the causative agent of pneumonia and state two ways that can be used to prevent the disease.

Causative agent (1mark)

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Prevention (2 marks)

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17. Describe how you will confirm the presence of starch in a leaf. (3mks)

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18. Complete the table below showing blood groups, antigens and antibodies in various blood groups. (4mks)

Blood group	Antigen (on red blood cells)	Antibodies (in plasma)
A	A	
B	B	
AB		
O	None	

19. State two differences between open and closed circulatory systems. (2 marks)

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20. Name two nutrients that are absorbed without being digested by enzymes in humans. (2mks)

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21. What is the function of contractile vacuoles in amoeba?

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22. (a) Name the part of the microscope that holds the eye-piece and revolving nose-piece. (1mark)

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(b) How would you transport a microscope from one bench to another? (1mark)

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23. State three factors that affect the rate of diffusion. (3 marks)

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24. Name 3 sites of gaseous exchange in a frog. (3 marks)

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25. How does nutrition as a characteristic differ in plants and animals? (2marks)

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26. Name two substances that are completely reabsorbed into the blood in the Nephron. (2 marks)

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27. Explain why water uptake of mineral salts decreases with water logging of soils.

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