FORM 2 MID TERM 2 2020

BIOLOGY

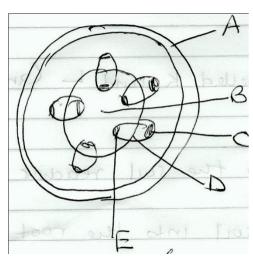
Answer all the questions in the spaces provided.

1. What is the role played by the following parts during digestion? (3mks)
i) Pancrease
ii) Liver
iii) Oesophagus
2. Explain the following; i) When transplanting seedling its advisable to remove some of the leaves. (1mk)
ii) Leaves are darker on the upper side than the lower side (1mk)
3. Distinguish between cohesion and adhesion force in the movement of water up the xylem vessels. (2mks)

4. Give three adaptation of root hair cell to its function. (3mks)

5. Highlight three roles played by the stem in a plant. (3mks)

6. The diagram below represents a transverse section of a young plant.



- a) From which plant organ was the plant obtained. (1mk)
- b) Name the parts labeled A and B. (2mks)

7. Name two s	structures where water loss f	rom plants occurs.	(2mks)
8. a) Define tr	ranslocation. (1mk)		
b) Name th	ne vessel in which translocation	on occurs in plants.	(1mk)
9. State two s	significance of transpiration.	(3mks)	
10. Highligh	t four structural factors that a	Iffect transpiration ra	ite. (4mks)
11. Name any for salts. (4mks	our forces that are involved in s)	n transpiration of wa	ater and mineral

12. Study the equation below and answer the question that follows.

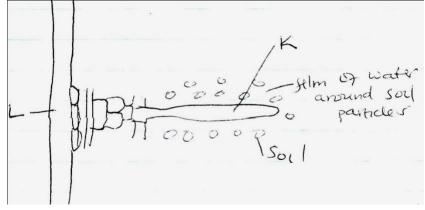
x

$$C_6H_{12}O_6 + C_6H_{12}O_6 \longrightarrow C_{12}H_{22}O_{11} + H_2O_6$$

Y

i) Identify processes x and y. (2mks)

- ii) Why are monosaccharide referred to as reducing sugars? (1mk)
- iii) Give two other properties of monosaccharide. (2mks)
- 13. The diagram below represents the pathways of water from the soil into the plant.



a)	Nam	e the structures labeled K and L. (2mks)
b)	Expl	ain how water from the soil reaches the structure labeled L. (5mks)
c)	Nam	e the process by which mineral salts enter into the plant. (1mk)
	14.	Give the role of the following vascular bundles. (2mks) i) xylem -
		ii) phloem -
	15.	Define the following terms as used in Biology Transpiration (1mk)

16.	Highlight	any three	factors th	at affect	energy 1	requireme	nts in man.	(3 mks)