Adm no. .....Class.....

Name.....

School .....

231/3**BIOLOGY PAPER 3 (PRACTICAL)** Sept 2021 Time: 1<sup>3</sup>⁄<sub>4</sub> HOURS

## **KASSU JET EXAMINATION -2021** (3) DLOGY PAPER 3 (PRACTICAL) He: 1 <sup>3</sup>/<sub>4</sub> HOURS t 2021 TRUCTIONS TO CANDIDATES TRUCTIONS TO CANDIDATES

231/3**BIOLOGY PAPER 3 (PRACTICAL)** Time: 1<sup>3</sup>⁄<sub>4</sub> HOURS Sept 2021

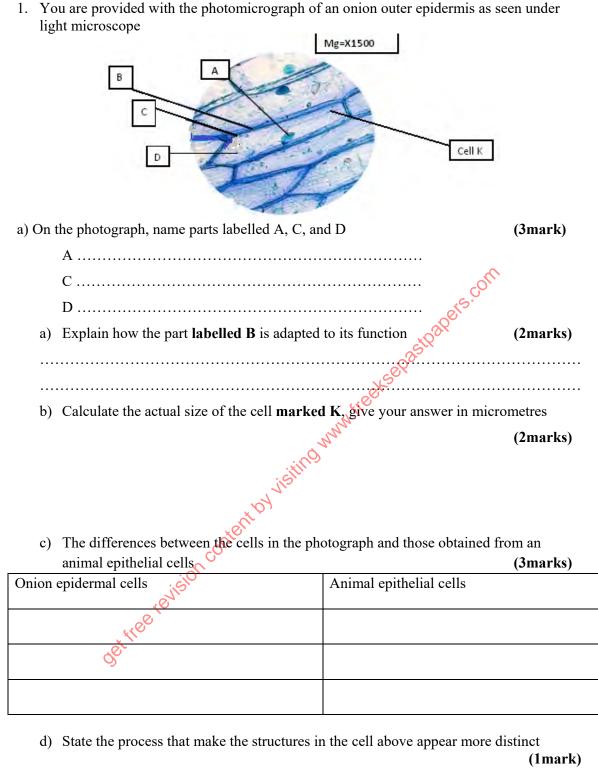
## **INSTRUCTIONS TO CANDIDATES**

- Answer ALL the questions.
- You are required to spend the first 15 minutes of 1 3/4 hours allowed for this paper reading the whole paper carefully before commencing your work.
- Answers must be written in the spaces provided in the question paper.
- Additional pages must not be inserted. •

## FOR EXAMINERS USE ONLY

Question	Maximum score	Candidate's score
	12	
<sup>60</sup>		
	14	
3	14	
Total Score	40	
	Marks	

This paper consists of 5 printed pages. Candidates should check the question paper to ensure that all pages are printed as indicatedand no questions are missing



- .....
- e) In microscopic procedure in 1 (d) above name what was used to achieve the process (1mark)

SPECIME	NA	SPECIMEN B
SPECIME		SPECIMEN D
SIECHVIE		SI ECHNEN D
		Muntheed to the the the
i)	Name the type of placentation s	
	A	
	В	
ii)	Identify the type of sections from	n which specimen C and D was obtained?
	C	(2 marks)
:::)		alad D (1-mayle)
iii)	Classify the above specimen lab	eled D (1mark)
iv)	You are provided with specimer	labeled <b>D1, D2, D3</b> and <b>D4</b> . Examine them
	Draw and label specimen labeled	d D2 (3marks)

2. The photographs below represent specimen labeled A, B, C and D

Specimen	Agent of dispersal	Reason	
D1			
D3			
		K	
D4		S.C.	
		A CONTRACT OF	
		astlet	
		1 Service States and Service States	
3. You a	re provided with the fol	lowing. Solution P, Q and Z.	
(a) (i)	Put 2 cm <sup>3</sup> of solution <b>P</b> ops into test tube <b>A</b> . Obs	P into two test tubes labeled A and B. Add iodine solution	
ui	ops into test tube A. Ob	serve and record. (1 mark)	
		ins	
(ii)To test tube <b>B</b> , add an equal amount of Benedict's solution. Heat to boil. Record			
	ur observation.	(1 mark)	

v)	Giving a reason a	and state the agent	t of dispersal	of the specimen	(6marks)

(iii) From the results in (a) (i) and (ii), identify solution **P**. (1 mark)

(iv). Put 2cm<sup>3</sup> of solution Z into a clean test tube labelled C. Add equal volume of Benedict's solution. Heat to boil. (1 mark)

(v) Open the visking tubing provided, Pour solution **P** into the visking tubing and add  $1 \text{ cm}^3$  of the solution **R**. Tie the visking tubing and ensure there is no leakage. Pour solution **Z** into a clean beaker till it is half full. Immerse visking tube in the solution **Z** in the beaker. Allow it to stand for 30 minutes. After 30 minutes, take  $2 \text{ cm}^3$  of solution **Z** from the beaker into a clean test tube labelled **D**. Add equal amount of Benedict's solution. Heat to boil. Record your observation. (1 mark)

	(vi)Account for the observation made in (v) above.	(3 marks)
(b)	i) Pour 2 cm <sup>3</sup> of solution $\mathbf{Q}$ into a clean test tube. Observe and record the solution $\mathbf{Q}$ .	color of (1 mark)
	ii) Add 1 cm <sup>3</sup> of sodium hydroxide into test tube containing solution <b>Q</b> . R observation.	ecord your (1 mark)
	iii) Explain the results observed in (b)(ii) above.	(2 marks)
	iv). what is the identity of solution <b>R</b> ?	(1 mark)
	v) State one factor that can affect the process demonstrated in 3a (v) abov	e (1 mark)
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