231/3 BIOLOGY PAPER 3 (PRACTICAL)

Time: 1³/₄ hours

KCSE 2023 PREDICTION MASTER CYCLE 6

Name	Index Number
Candidate's Signature	Date

Instructions to candidates

- a) Write your name and class in the spaces provided above.
- b) Sign and write the date of examination in the spaces provided above.
- c) Answer ALL questions in the spaces provided.
- d) Additional pages MUST NOT be inserted.
- e) Candidates will be penalized for incorrect spelling especially of technical terms and for use of slovenly language
- f) You are required to spend the first **15 minutes** of the **1**% hours allowed for this paper reading the whole paper carefully before commencing your work.
- g) This paper consists of 5 printed pages. Candidates should check the question paper to ascertain that ALL the pages are printed as indicated and no questions are missing

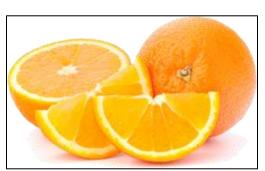
For Examiner's Use Only

Question	Maximum Score	Candidate's Score
	Score	Score
1	14	
2	13	
3	13	
Total score		
	40	

1. You are provided with substance labelled P, Q, M, N and Z. P and Q are food substances, while M is dilute hydrochloric acid, N is dilute sodium hydrogen carbonate and Z is Benedicts' solution. Carry out the tests to determine the food substances present in P and Q. Fill in the table below. (12 marks)

Substance	Food substance	Procedure	Observations	Conclusion
P				
Q				

1. Below are photographs of specimens obtained from plants. Examine the photographs and use them to answer the questions that follow.

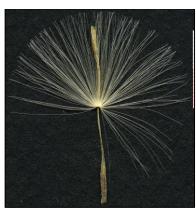




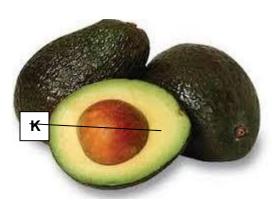
SPECIMEN A SPECIMEN B







SPECIMEN D





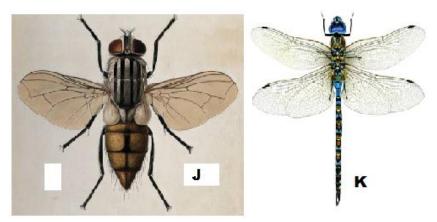


SPECIMEN F

SPECIMEN	MODE OF DISPERSAL	ADAPTIVE FEATURES	
A			
3			
C			
D			
E			
F			
ı.	I		
(a) (I) State the t	ype of placentation in spe	ecimen A	(1 mark)
(ii) Name the s	structure labeled ${f K}$ in spe	cimen E	(1 mark

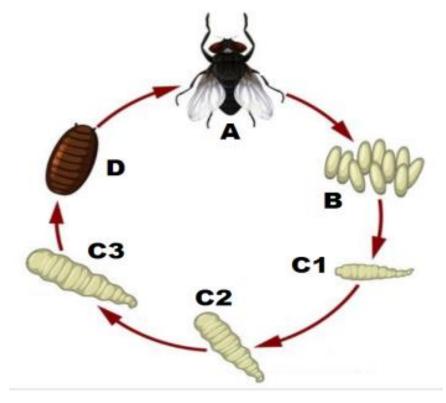
a) In the table below name the mode of dispersal and the features that adapt the specimen(s) to that mode of

2. Below are photographs of two specimens, J and K. Both of them belong to the same phylum and class. Observe them carefully before you answer the questions that follow.



a)	Name the class to which J and K belong and support your answer with two reasons. J	3mks
	K	•••••
b)	Suggest why the circulatory fluid in J and K has no haemoglobin.	2mks
	J	
	K	
c)	Observe their wings and suggest the type of evolution that could have taken place to give rise and then give a reason for your answer.	e to J and K, (3mks
	 K	
		• • • • • • • • • • • • • • • • • • • •

d) Below is a diagram showing the life cycle of specimen J.



i)	Identify the stage labeled D.	(1mark)
ii)	Name the hormone responsible for the change from D to A.	(1mark)
iii)	Explain the differences in the change from C2 to C3 and from C3 to D.	(4marks)
•••		
•••		
•••		

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