NAME…….. INDEX NO…….....

231/3 CANDIDATE'S SIGN……...
BIOLOGY
PAPER 3 DATE……
(PRACTICAL)
JULY/AUGUST, 2014
TIME: 1¾ HOURS

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KIHARU/KAHURO DISTRICT JOINT EXAMINATION - 2014

Kenya Certificate of Secondary Education
BIOLOGY
PAPER 3
(PRACTICAL)
TIME: 1¾ HOURS

INSTRUCTIONS TO CANDIDATES:

(a) Write your **name** and **index number** in the spaces provided **above.**
(b) **Sign** and **write** the date of examination in the spaces provided **above**.
(c) Answer all the questions in the spaces provided.
(d) You are required to spend the first 15 minutes of the 1¾ hours allowed for this paper reading the whole paper carefully before commencing your work.
(e) Additional papers must not be inserted.
(f) This paper has **three** questions and pages.
(g) Students should check the question paper to ascertain that all the paper are printed as indicated and that no questions are missing.
(h) Candidates should answer all the questions in English.

FOR EXAMINER'S USE ONLY:

Question	Maximum Score	Candidate's Score
1	15	
2	15	
3	10	
Total Score	40	

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1. You are provided with a food sample labelled solution P. Using the reagents provided, carry out tests to identify the food substances present in the sample.

	Test for	Procedure	Observation	Conclusion
1.	Protein			
2.	Starch			
3.	Reducing sugar			
4.	Vitamin			

(b) (i) State **one** function of vitamin C in human body. (1mk)

_____

_____

(c) Name **two** enzymes involved in digestion of proteins. (2mks)

_____

_____

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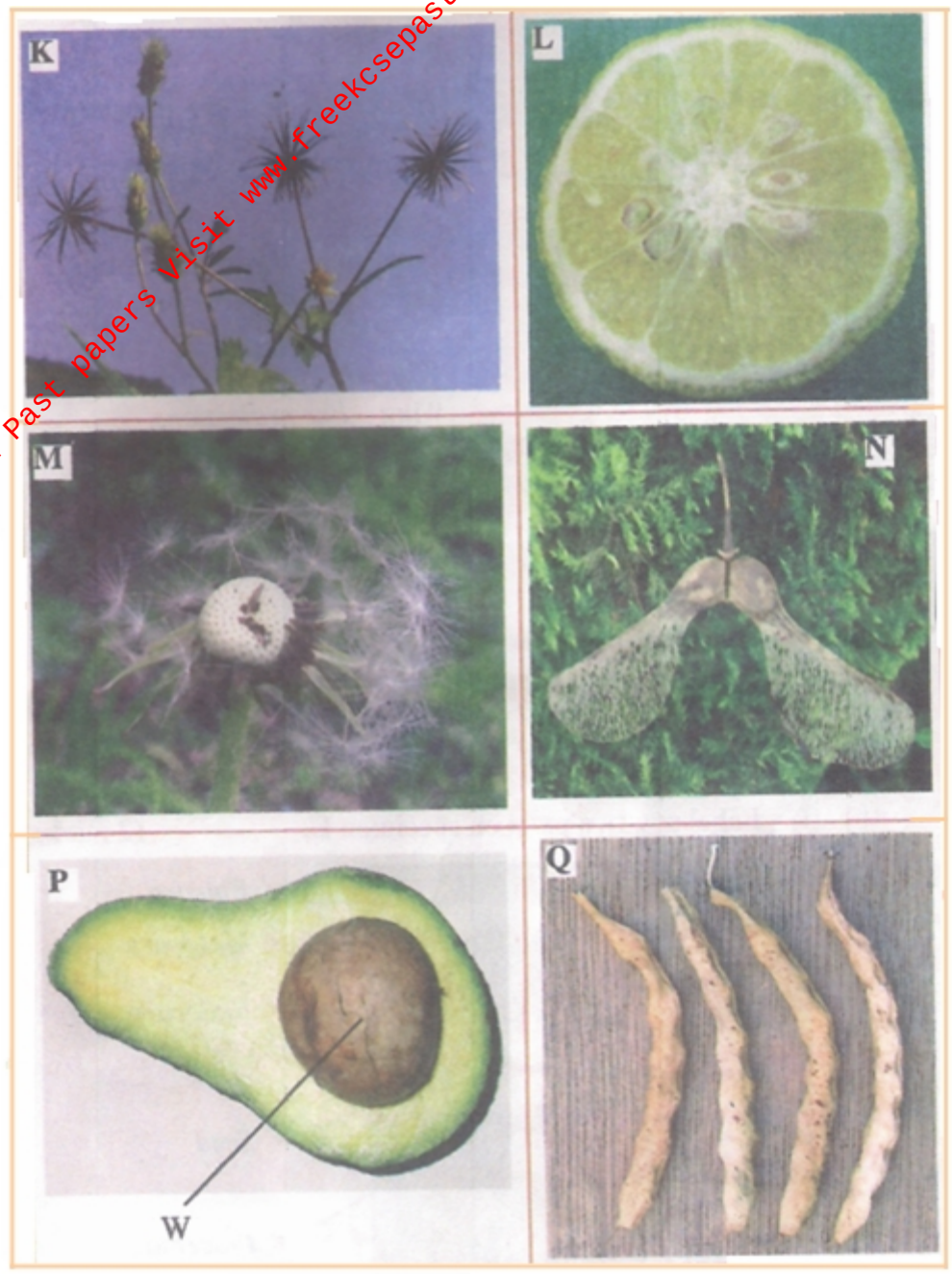
2. The figures below are photographs of specimens obtained from plants. Examine the photographs and answer the questions that follow.



(a) In the table below name the mode of dispersal and the features that adapted the specimen(s) to that mode of dispersal. (2mks)

Specimen	Mode of dispersal	Adaptive features
K		
L		
M		
N		
P		
Q		

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(b) (i) On the diagram labeled specimen **L** label any two parts. (1mk)

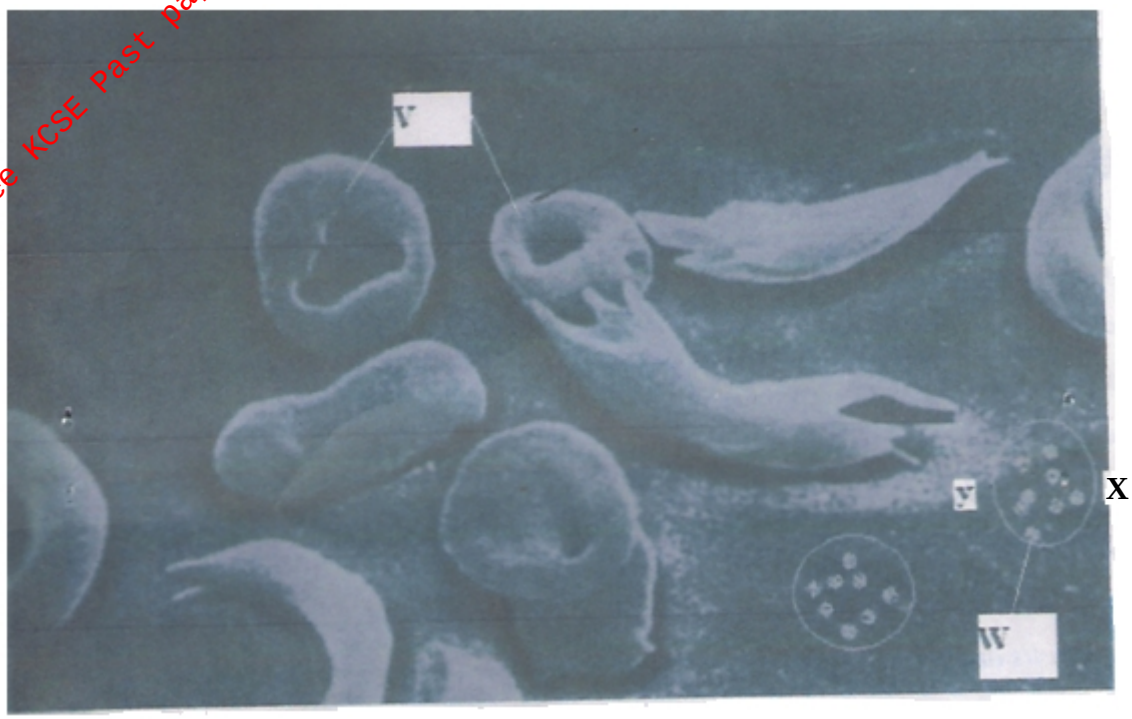
(ii) State the type of placentation in specimen **L**. (1mk)

_____

(c) Name the structure labeled **W** on specimen **P**. (1mk)

_____

3. The figure below is a photomicrography of a blood smear from a person suffering from ascertain disease. Study it and then answer the questions that follow.



(a) Name the structure labeled **V** and **W**. (1mk)

_____

(b) (i) What disease was the person suffering from? (1mk)

_____

(c) (i) What advantages is the person likely to have over normal individuals. (1mk)

_____

_____

(ii) Give reason for your answer in c(i) above. (1mk)

_____

_____

_____

(e) (i) Using a ruler, determine the diameter of the structure labeled **W** between points **Y** and **Z** in millimeter. (1mk)

_____

(ii) Given that the magnification of this photomicrograph is **X**2000, determine the actual diameter of the structure B in micrometer show all your working. (2mks)

_____

_____

_____

_____

_____

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