

NAME.....ADM. NOCLASS:.....

DATE.....

231/3
BIOLOGY
PAPER 3
PRACTICAL
NOV.
TIME: 1³/₄HRS

KENYA CERTIFICATE OF SECONDARY EDUCATION

Instruction to Candidates

- Write your Name, Adm. No., Class and Date in the spaces provided
- Answer all the questions
- You are required to spend the first 15 minutes of the 1³/₄Hrs around 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.
- The paper consists of six printed pages.

FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	13	
2	13	
3	14	
TOTAL SCORE	40	

1. You are provided with a suspension labelled W

- a) Using the reagents provided only, carry out food test and complete the table below (12 mks)

Food substance	Procedure	Observations	Conclusions

- b) i) Name the enzymes that are required to digest the suspension W in the alimentary canal (1mk)

- ii) State the medium under which the enzymes named in a(i) above functions

best.(1mk)

- c) Name the deficiency diseases a child that is fed on the above suspension W only is likely to suffer from (2mks)

2. Photographs J and KI represents specimens which were obtained from different habitats.



- a) With reasons identify the habitat of specimen J and KI (4mks)

KI

Reason(s)

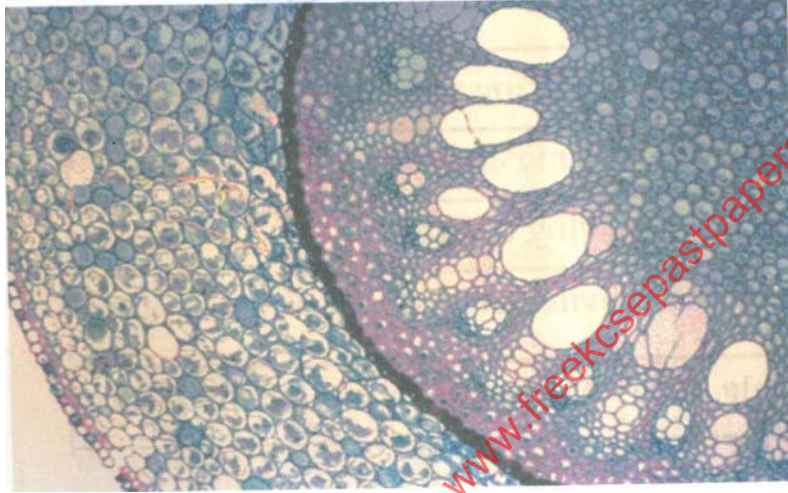
J –

Reason(s)

- b) Give the term used to describe plants found in the same habitat with specimen J (1mk)

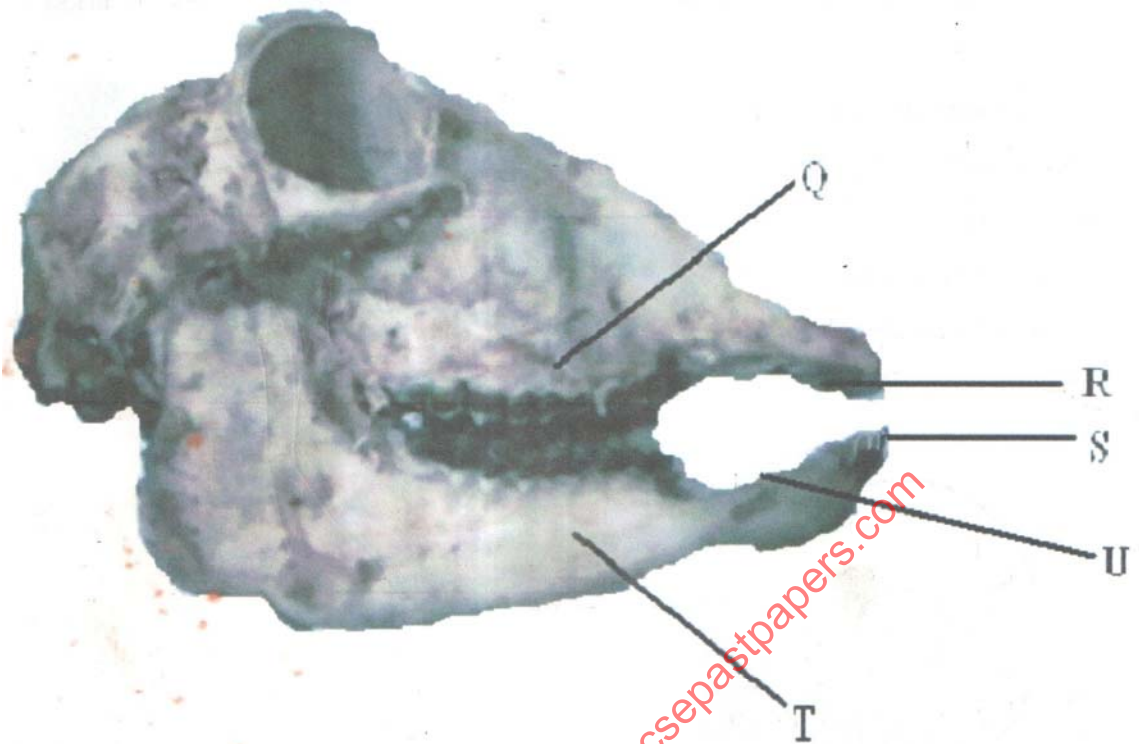
c) State three modifications found in the stomata of leaves found in the habitat of specimen J (3mks)

d) The photograph below was obtained from a cross-section of part of specimen K₁



- i) From which part of plants was the cross section obtained? (1mk)
- ii) Give reason for your answer in d(i) above (1mk)
- iii) Draw a plan diagram of the cross-section shown and label any four parts (2mks)

3. Below are photographs named J, X, Y and Z representing parts of a certain animal. Study them to answer the questions that follow.



Above: Specimen of



- a) Name the parts labeled in the photograph above as: (4mks)
- Q –
R –
S –
T –
- b) What is the function of part labelled U? (1mk)
- c) What is the mode of feeding of the animal from which the specimens above were obtained? (1mk)

d) Fill the table below to distinguish between specimen X, Y and Z above (9 mks)

Specimen	Name	Adaptation	Function
X			
Y			
Z			

for free past papers visit: www.freekcsepastpapers.com