

Name: Index no

School: Candidate's sign

Date:

231/3

BIOLOGY

PAPER 3

JULY /AUGUST 2011

TIME: 2 HOURS

BUSIA DISTRICT JOINT EVALUATION TEST

*Kenya Certificate of Secondary Education (K.C.S.E.)***Biology
Practical****INSTRUCTIONS TO CANDIDATES:**

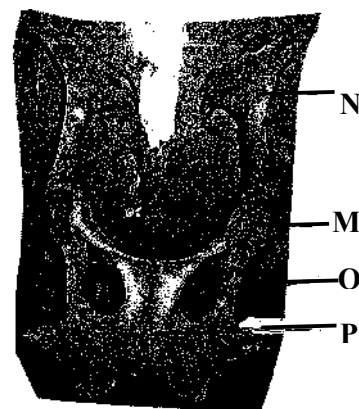
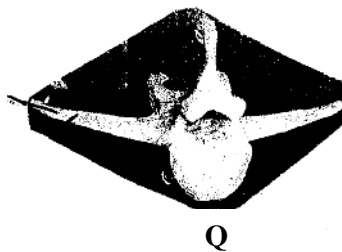
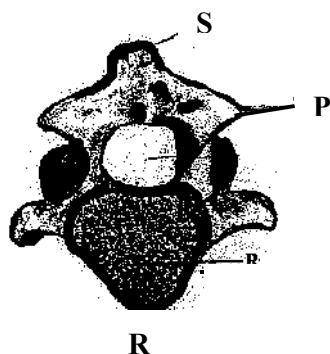
- Write your **name** and **index number** in the spaces provided.
- Sign and write **date** of examination in the spaces provided above
- Answer **all** the questions in section **A** and **B**
- You are required to spend the first 15 minutes of the 1 $\frac{3}{4}$ hours allowed for this paper reading the whole paper carefully.

For Examiner's Use Only:

QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
1	14	
2	15	
3	11	
TOTAL	40	

This paper consists of 4 printed pages. Candidates should check to ascertain that all papers are printed as indicated and that no questions are missing

1. Examine the photographs below and answer the questions that follow.



1 (a) Label the parts **M N O P**

(4mks)

M.....
N.....
O.....
P.....

(b) Identify the fused bones.

(1mk)

.....

(c) Name the;

(i) Bone that articulates at the point labeled **M**.

(1mk)

.....

(ii) The hole labeled **R**.

(1mk)

.....

(d) (i) Give the identity of bone **Q** and **R**.

(2mks)

Q.....

R.....

(ii) Give **one** reason each for your answer in d(i) above

(2mks)

Q

R

(e) Give **three** differences between bone **Q** and **R**

(3mks)

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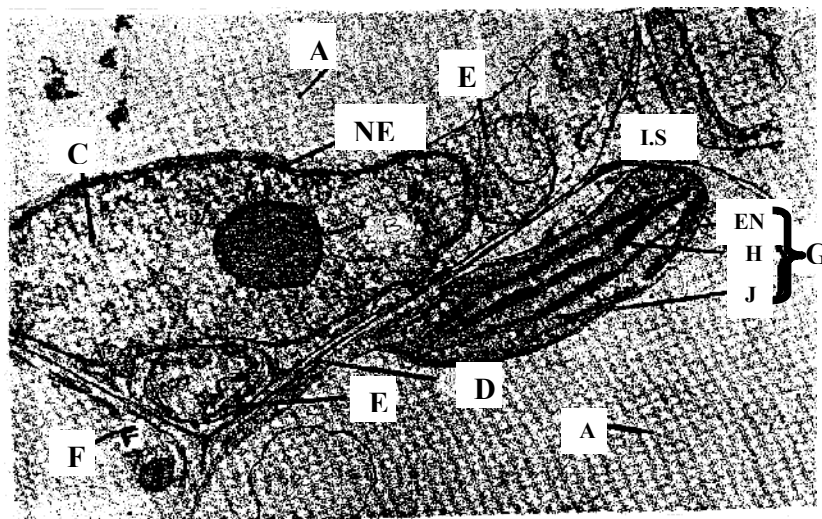
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2. Below is an electron micrograph study it and answer the questions that follow.



(a) Identify the following parts.

(6mks)

A.....

D.....

B.....

E.....

C.....

F.....

(b) State the kingdom of the organism from which the micrograph was taken.

(1mk)

.....

c) Give **two** reasons for your answer in (b) above.

(2mks)

.....

.....

.....

.....

d) How many cells can be seen?

(1mk)

.....

e) What is the function of the parts labeled **G, H** and **J**.

(3mks)

G.....

H.....

J.....

f) State the role of the parts labeled **D** and **F**

(2mks)

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3. You are provided with bean seeds that have been soaked for 48hours.

- i) Crush them using a pestle and mortar. Add 6 ml of water to the paste. Divide the mixture into two portions then use the mixture to carry out test.

Using the following reagents-iodine solution, sodium hydroxide, Copper II sulphate solution provided . put your results in the table below.

Test	Procedure	Observation	Conclusion

- ii) State the functions of the food substance(s) you have found to the seed during germination. (3mks)

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