

NAME:.....

INDEX NO:.....

SCHOOL:.....

DATE:.....

SIGN:.....

231/3
BIOLOGY
PAPER 3
(PRACTICAL)
JULY/AUGUST - 2012
TIME: 1³/₄ HOURS

MANGA DISTRICT JOINT EVALUATION EXAM– 2012
Kenya National Examination Council (K.C.S.E)

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BIOLOGY
PAPER 3
(PRACTICAL)
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INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the spaces provided.
2. Sign and write the date of the examination in the spaces provided above
3. Answer all the questions
4. You are required to spend the first 15 minutes of 1³/₄ hours allowed for this paper reading the whole paper carefully before commencing your work.
5. Answers must be written in the spaces provided in the question paper.
6. Additional pages should not be inserted candidates may be penalized for recording irrelevant information and for incorrect spellings especially of technical terms.

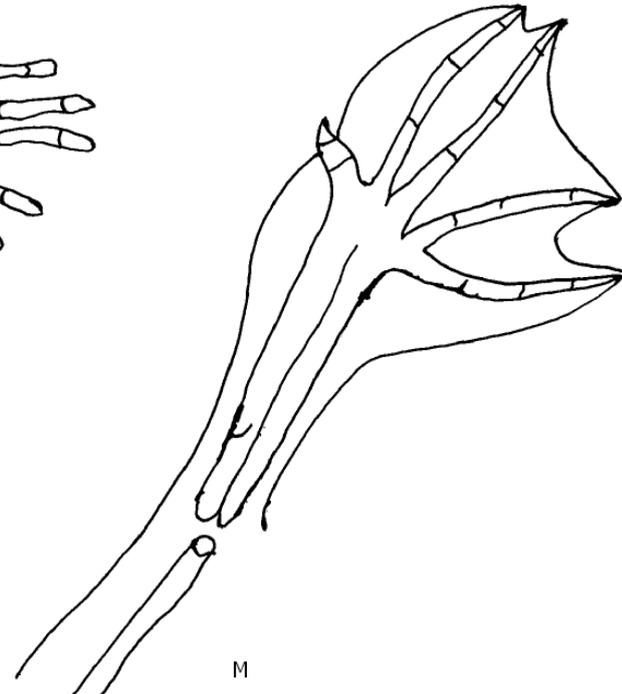
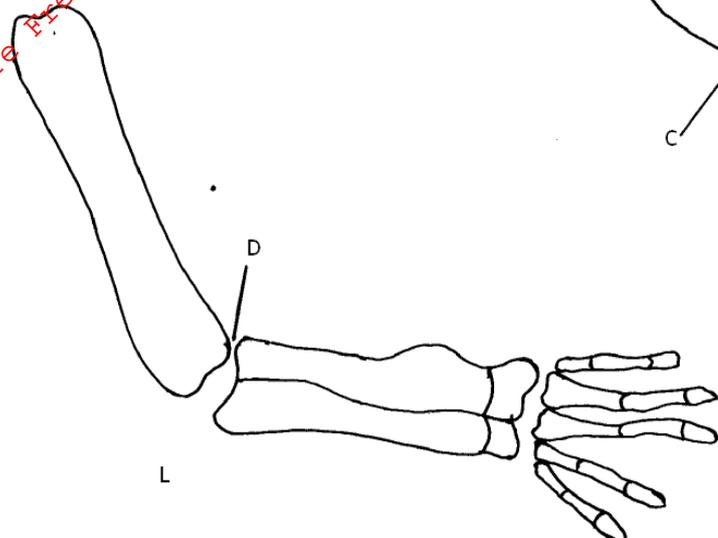
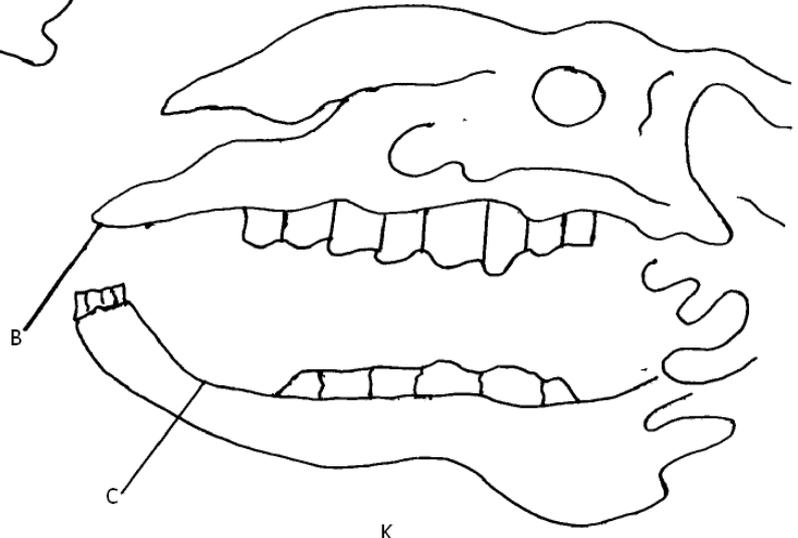
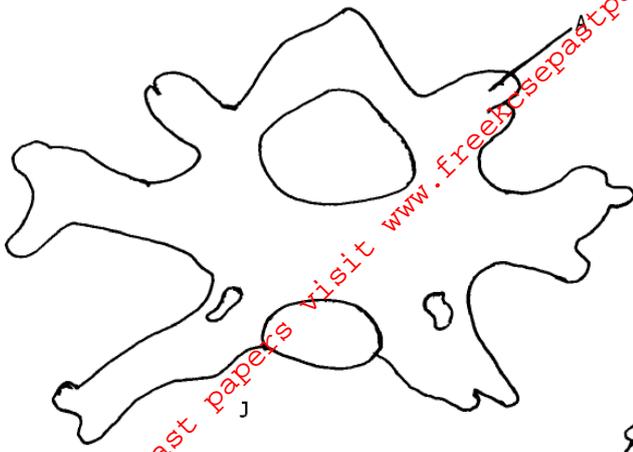
FOR EXAMINERS USE ONLY.

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1	16	
2	11	
3	13	
SCORE	40	

This paper consists of 8 printed pages.

Candidates should check the question paper to ensure that all pages are printed as indicated and that no questions are missing.

1. The diagrams below are bones obtained from different mammals



a) Identify bone J. (1 mark)

.....
.....

b) Name the parts labeled A. (1 mark)

.....
.....

c) Give the names of the cartilage that separates specimen J from another vertebra (1 mark)

.....
.....

d) State two functions of the cartilage named in c above. (2 marks)

.....
.....
.....

e) State two structural differences between atlas vertebra and specimen J (2 marks)

Atlas	Specimen J

f) i) State the diet of the mammal whose skull is illustrated in drawing K. Explain your answer.

Diet (1 mark)

.....
.....

Explanation (1 mark)

.....
.....

ii) Name the parts labeled B and C. (2 marks)

B

.....
.....

C

.....
.....

iii) State the functions of the part labeled B. (1 mark)

.....
.....

g) i) Give the name of the fluid found at the part labeled D in drawing L (1 mark)

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.....
.....

b) State the function of the solution S and T in the food test.

S

(1 mark)

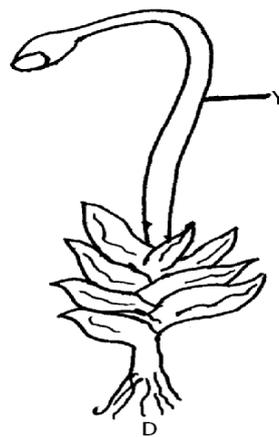
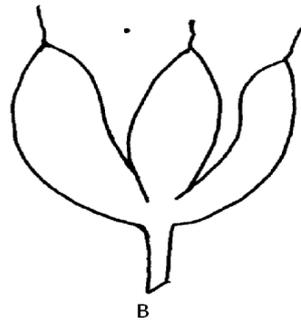
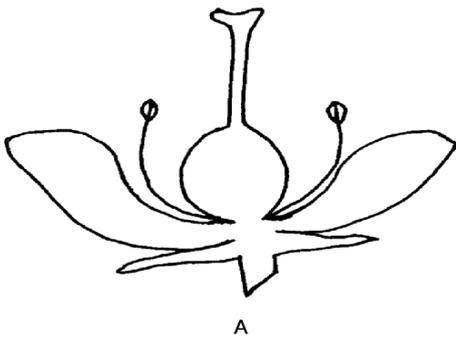
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T

(1 mark)

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.....

3. The diagrams A, B and C show parts of a flower while diagram D show a plant



a) Name the condition exhibited in drawing A which hinder self-fertilization. (1 mark)

.....
.....

b) Explain how the above condition hinders self-fertilization. (1 mark)

.....
.....

c) With reasons give the term given to gynoecium B and C

B (1 mark)

.....
.....

Reason (1 mark)

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.....
.....

C (1 mark)

.....
.....

Reason (1 mark)

.....
.....
.....

d) With reason, name the type of ovary shown in the diagram A

Type (1 mark)

.....
.....

Reason (1 mark)

.....
.....
.....

e) i) State the division where plant in diagram D belong and give reason for your answer.

Division (1 mark)

.....
.....

Reason (1 mark)

.....
.....

ii) State the type of nutrition exhibited by specimen D. (1 mark)

.....
.....

iii) Give the function of the structure labeled Y. (1 mark)

.....
.....

iv) Using letter T, indicate on diagram D where the female sex organ is found. (1 mark)

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