NAME: ……..INDEX NO:…….

SCHOOL: ……..SIGNATURE:……

DATE: ……

231/3
Biology
Practical
Paper 3
July/August, 2016
Time: 2 Hours

KAKAMEGA SOUTH SUB-COUNTY JOINT EVALUATION TEST – 2016

Kenya Certificate of Secondary Examination (KCSE)

231/3
BIOLOGY
THEORY
PAPER 3

INSTRUCTIONS TO CANDIDATES

- Write your name, index number and school in the spaces provided
- Sign and write the date the examination was done in the spaces provided
- Answer ALL the questions in the spaces provided on the question paper
- This paper consists of 3 questions on 6 printed pages. Candidates are advised to check the question paper carefully to ensure that all the pages are printed as indicated and no questions are missing
- All answers must be written in the English language.

FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	14	
2	15	
3	11	
TOTAL SCORE	40	

This paper consists of 6printed pages Check the Question paper to ensure that all pages are printed as indicated and no question are missing.

1. You are provided with photographs of specimens U,X Y and Z.

a) Name U_1, U_2, U_3, X, Y and Z (6 mks)

U_I……..

U_2……

U_3……..

X……..

Y……..

Z……..

b) i) Name the fluid substance found between X_1 and Y_1. (1 mk)

……

……

ii) State the function of the fluid substance named in b) i) above (1mk)

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c) Name the structure that joins the bones together at the joint formed between X_1 and Y_1 (1mk)

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d) i) State the difference between a hinge and the one formed between U_3 and U_2 (2 mks)

……

……

ii) State two structures labeled in the photograph that forms a ball and socket joint (2 mks)

……

……

e) Name the structure at the elbow that performs the same function as the patella (1 mk)

……

……

2. You are provided with specimens X and Y

a) State with a reason whether the specimens are fruits or seeds (2 mks)

……

……

b) Specimen X has undergone a certain change to become Y after some days

1) What is the name of the change? (1 mk)

……

……

ii) What is the name given to the chemical substance that stimulates the change in b) I above? (1mk)

……

……

c) Using a scalpel cut a transverse section of specimen Y into two halves

i) Draw and label a cross section of one half (3 mks)

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ii) What is the placentation exhibited by the drawn section? (1 mk)

……

……

d) What is parthenocarpy? (1mk)

……

……

d) Use a mortar and pestle to crush a 1cm X 1cm cube of specimens X and Y separately and make a solution. Using the reagents provided, test for the food present in the solution.

e)

Specimen	Food substance	Procedure	Observation	Conclusion
X				
Y				

f) Account for the results obtained above. (2 mks)

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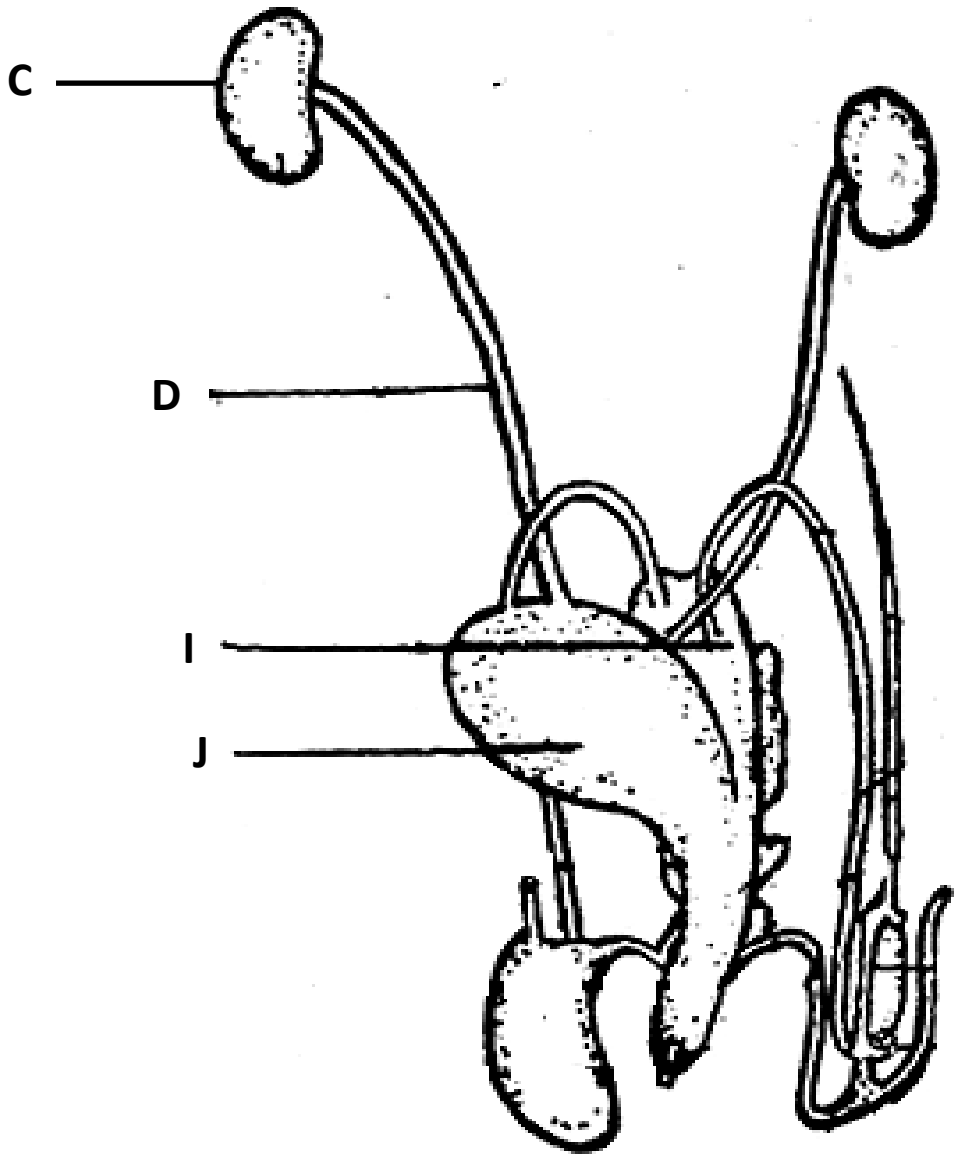
3. The diagram below represents the parts of a urinogenital system in a mate rabbit. Study it carefully to answer the questions that follow.



a) Name the parts labeled C, D, I and J (4 mks)

C……..

D……

I……..

J……..

b) Name and state the function of the parts labeled B and G (4 mks)

B: Name…….

Function……

G: Name……

Function…….

c) Name the contents in D (1 mk)

……

……

……

d) Name the two hormones involved in the working of organ I (2 mks)

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