

Name .....

Index No.....

School .....

Candidate's Signature .....

Date .....

231/3

BIOLOGY

PAPER 3

(PRACTICAL)

JULY / AUGUST

TIME: 1<sup>3</sup>/<sub>4</sub> HOURS

**MASINGA DISTRICT JOINT EVALUATION TEST - 2011**  
*Kenya Certificate of Secondary Education (K.C.S.E)*

231/3

BIOLOGY

PAPER 3

(PRACTICAL)

TIME: 1<sup>3</sup>/<sub>4</sub> HOURS

**INSTRUCTIONS TO CANDIDATES**

1. Write your name and index number in the spaces provided
2. Answer **ALL** the questions in spaces provided.
3. You are required to spend the first 15 minutes of the 1<sup>3</sup>/<sub>4</sub> allowed for this paper reading the whole paper carefully before commencing your work.

**FOR EXAMINER'S USE ONLY**

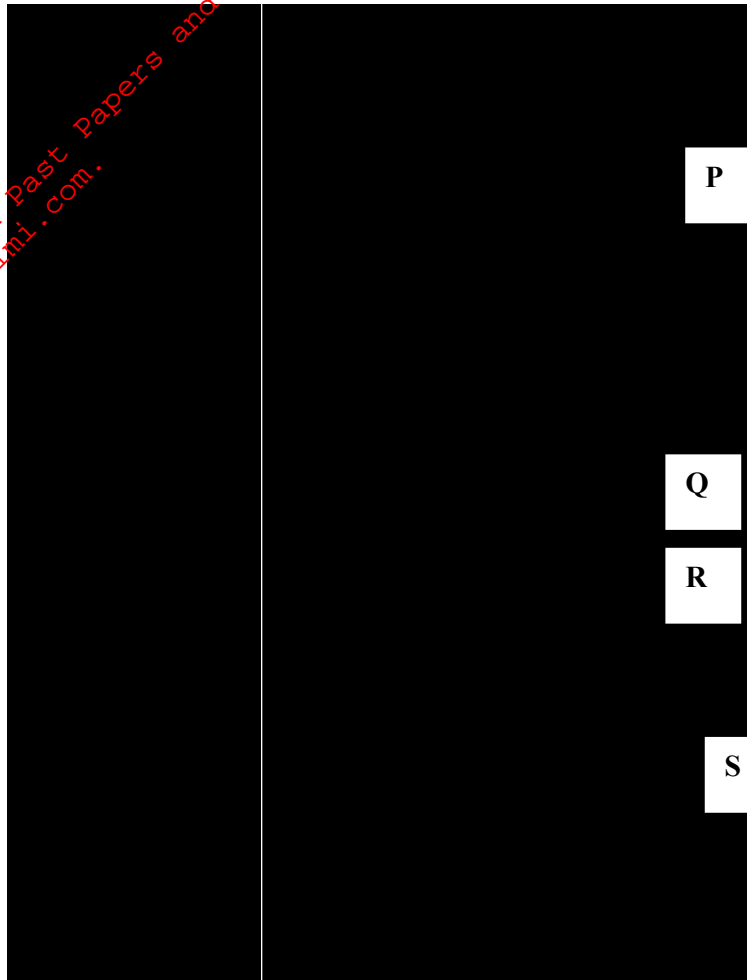
Question	Max. Score	Candidate's score
1	12	
2	16	
3	12	
<b>TOTAL SCORE</b>	<b>40</b>	

*This paper consists of 6 printed pages.*

*Candidates should check to ensure that all pages are printed as indicated and no questions are missing*

1.

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Above is a diagram representing a dissection of an organism, study it and answer the questions below.

a) Name the parts labelled P and Q. (2 Marks)

P .....

Q .....

b) From the observable features only, explain the adaptations of the parts labelled R to its functions. (3 Marks)

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

c) Identify and explain the role of the part labelled S.

Identify

.....  
.....

Role

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

d) With reasons, classify the organism into;

(4 Marks)

i) Kingdom

.....

Reason

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

ii) Class

.....

Reason

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

e) i) In the Diagram identify the heart and the Trachea .

(2 Marks)

ii) State **two** adaptations of the trachea to its functions.

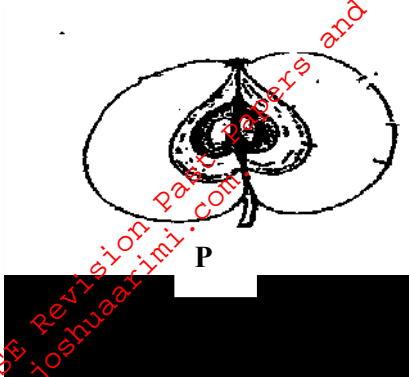
(2 Marks)

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2. You are provided with solution P.

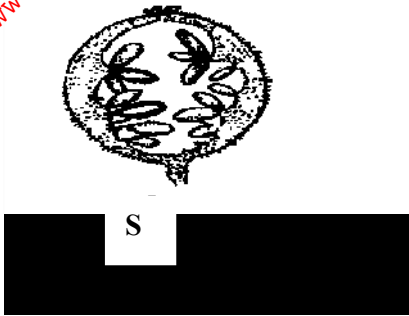
Using the reagents provided, test for food substances in the solution. Record the food substance, procedure, observations and conclusions in the table below. (12 Marks)

Food substance	Procedure	Observation	Conclusion



Q

R



T

U

3. Above are photographs labelled P, Q, R, S, T and U of fruits obtained from different plants. Examine them and answer the questions underneath.

a) With reasons, determine the modes of dispersal for the fruits labelled Q, R and S. (6 Marks)

Q .....

Reason

.....

.....

.....

R .....

Reason

.....

.....

.....

S .....

Reason

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

b) State the form of placentation in Q, S, T and U. (4 Marks)

Q .....

S .....

T .....

U .....

c) With a reason, identify the type of fruit represented by specimen U. (2 Marks)

Type

.....

Reason

.....  
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