Name:		Adm. No:
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BIOLOGY
FORM FOUR
PAPER 3 - PRACTICAL
MARCH/APRIL - 2013
TIME: 13/4 HOURS

ELDORET EAST INTER - SCHOOLS TEST - 2013

Kenya Certificate of Secondary Education (K.C.S.E.)

BIOLOGY PAPER 3.

## INSTRUCTIONS TO CANDIDATES

- $\sqrt{}$  Write your name, Adm number and sign in the spaces provided above.
- You are required to spend the first 15 minutes of the  $1^{3}/_{4}$  hours of time allocated reading whole paper carefully before commensing your work.
- ✓ All answers <u>must</u> be written in the spaces provided in the question paper. Additional pages <u>MUST</u> not be inserted.

## **FOR EXAMINERS USE ONLY**

Questions	Maximum Score	Candidates Score	
1	13		
2	14		
3	13		
Total Score	40		

This paper consists of 4 printed pages.

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

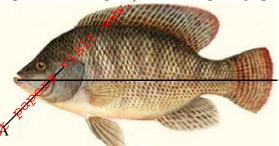
a)	Place three drops of liquid X into a white tile. Add four dr	rops of iodine solution and record your			
	observation.	(1 mark)			
b)	Pour 2 ml of liquid X in a test tube. Add 2 ml of Benedict	's solution, boil the mixture. Record			
	your observation.	(1 mark)			
c)	Qert &	fliquid V into each of the set ups			
بر	Divide substance Q into three portions.				
\$, \$ <sup>6</sup>	To set up A add one portion of substance Q and shake.				
e Krije Para	Place the second portion of substance Q into a test tube. Add 1 ml of water to it and boil for four minutes. Add it to set up B and shake.				
	To set up C, Add a third portion of substance Q. Add 8 drops of 1 m HCl and shake.				
	Place the three set ups in a warm water bath maintained at 37°C for 30 minutes. Cool the set up				
	by dipping the boiling tubes in cold water.				
	Place 2 ml of the contents of each set up into three separate test tubes.  Add equal amount of Benedicts solution to each of the three test tubes and boil.				
	Record your observations;	test tuees und som			
	Set up A	(1 marks)			
	Set up B	(1marks)			
	Set up C	(1marks)			
d)	Account for your observations in the set up:-				
	Set up A.	( marks			
	Set up B.	(2 marks			
	Set up C.	(2marks			
e)	Give the most likely identity of substance Q	(2marks)			
f)	Why was the water bath maintained at 37°C	(1 marks)			

1



h)	Name a part in a seed where the process you have named in (g) above occurs.	(1mark)
	$\mathcal{S}^{-}$	

2. You are provided with specimen G in the photograph below.



Identify the phylum and class to which the specimen belongs. (2 marks)

b) Name and state function of part labelled A. (2 marks)

c) Draw a labelled diagram of organ protected by A. (3 marks)

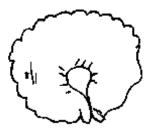
e) State three adaptation of the organ drawn in C above. (3 marks)

What is the importance of the following features to daily survival of specimen G.

i) Silvery pigment (1 mark)

ii) Secretion of mucus beneath the scales (1 mark)

3 a) Using the photograph of specimen shown below, answer the questions that follow.



(2 marks)

b) Use figure A and B shown below of fruit types to answer the questions that follow.



i)

N B B

i) Name the type of fruit shown by figure A.

(1 mark)

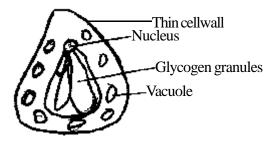
ii) What type of placentation and gynuecium does fruit B exhibit.

(2 marks)

iii) Identify one feature that adapts fruit A to its agent of dispersal.

(1 mark)

c) The diagram below represents a living organism



i) State the type of asexual reproduction the above organism exhibits.

(1 mark)

ii) Briefly describe how the above named type of reproduction takes place.

(4 marks)

\_\_\_\_\_

iii) Other than physical environmental conditions give one conduction necessary for the above named type of asexual reproduction to take place. (1 mark)