Name	Index Number	
	Student's Signature	

231/3 **BIOLOGY** PAPER 3 **PRACTICAL JUNE, 2016** 1 ¾ HOURS

KASSU JOINT EXAMINATION

Kenya Certificate of Secondary Education

BIOLOGY

Practical
TIME: 1 34 Hours

Q1. You are provided with Four Test-tubes label as **A**, **B**, **C** and **D**. You are required to prepare the contents of test tube **A**, **B**, **C** and **D** as follows.

To test tube **A** add 2cm³ of solution **R** provided and test using the provided reagent.

To test tube **B** add 2cm³ of solution **T** provided and test using the provided reagent.

(5 marks)

(a)

Test tube	Procedure	Observation 🔗	Conclusion
A		stpapers.com or call of 200	
В	ers visit, www.freek	isela a contract of the contra	

(b) To test tube **C** and **D**, prepare them as follows:

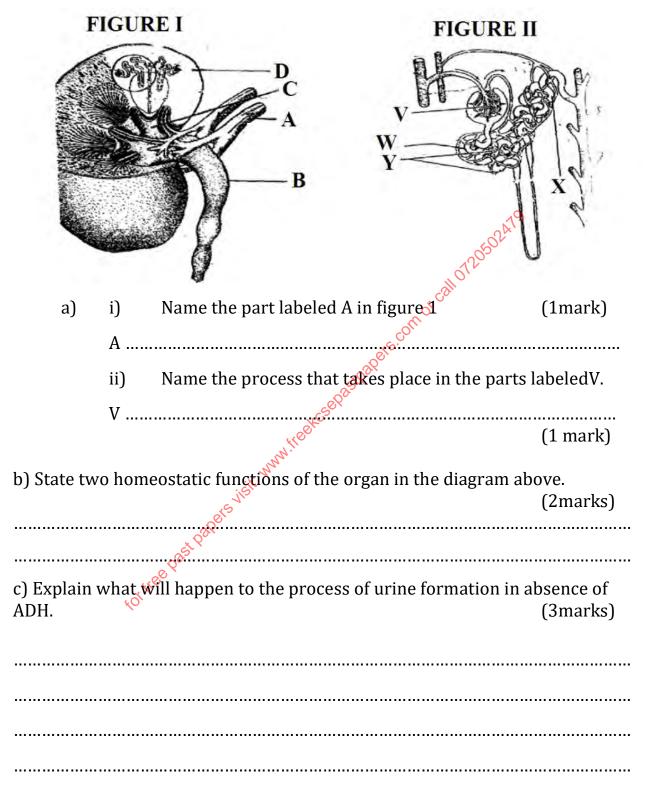
To test tube **C** add 2cm³ of **R** and 2cm³ of solution **H** provided boil it and allow it to stand for 5 minutes.

To test tube **D** add 2cm³ of **R** and 2cm³ of solution **T** boil and allow it to stand for 30 minutes. For both **C** and **D** test using the provided reagents and tabulate your results below.

(5 marks)

Test tube	Procedure	Observation	Conclusion
С			
D			.A.
		mo1205	S. K.
(c) To the provided visking tubing tie one end with the provided string and add solution R . Tie the remaining end and immerse it in a solution of iodine solution in a beaker (50ml). After 2 minutes remove it from			
	eaker and observe.		. 1 1 .
(i)	What was your observation at the end of experiment?	n of the contents of th	le visking tubing (1 mark)
	o Reis Viett		
(ii)	Account for your results in	ı (i) above.	(3 marks)
	(0)		

2. Study the kidney diagrams below:



d) Below are photographs labeled ${\bf B}$ and ${\bf C}$ of organs obtained from different animals. The organs perform similar functions. Examine them and answer the questions that follow.



(1)	Name the parts labeled B1, B2 and B3 in photographs B	(3marks)
B1	Name the parts labeled B1, B2 and B3 in photographs B	
B2	E VEIT. NOWN.	
В3	Qast QaQe	
(ii) Ic	lentify the parts labeled K1, K2 and K3 in photograph C	(3marks)
K2		
К3		

3. Study the diagrams set A_1 , set E_1 , set M_1 and set B carefully and answer the questions below









(a) State the conditions under which each set up was grown. (3mks)

Set A₁ _____

Set E₁ _____

Set B

(b) (i) Name the phenomenon exhibited by seedlings in set $E_1(1mk)$

(ii) Give a reason why plants exhibit the phenomenon named in (b) (i) above (1mk)

	(c) (i) Name the response exhibited by the seedlings in set B. (1mk)
	(ii) Explain how the response named in (c) (i) above occurred
	(2mks)
(d) (i M ₁ .	State the type of germination exhibited by seedlings in set A ₁ and set (2mks) Set A ₁
	Set M ₁
	(ii) Give a reason for your answer in (d) (i) above (2mks)
	Set A ₁ Set M ₁
	(iii) State the mode of dispersal in set A above when mature. (1 mk)
	(iv) Name the type of fruit formed by M1 on maturity. (1 mk)