Name:	Registration Nur	mber: Class

2 3 1 / 3 B I O L O G Y 1 ³/₄ h o u r s T R I A L 6

2 0 1 8

FORM THREE

Kenya Certificate of Secondary Education (KCSE)

Instructions to Candidates

- (a) Write your name and registration number in the spaces provided above.
- (b) Answer all the questions in section A in this paper
- (c) You are required to spend the first 15 m inutes of the 1¾ hours allowed for this paper reading the whole paper carefully before commencing war work.
- (d) Additional pages must not be inserted.
- (e) This paper consists of 5 Printed pages.
- (f) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

For Exam in er's Use Only

Questions	Maxim u m	Candidate's
00	Score	Score
1 total	1 2	
2	1 4	
3	1 4	
TotalScore	4 0	

1. You are provided with

- B 2	
- Irish potato	
Label two test tubes X and Y. Into each test tube, put 2 cm 3 of water and 8 drops of liq T o the test tube labeled X add 8 drops of liquid B $_1$, shake both test tubes and allow the stand for 2 m inutes	
(a) (i) Record your observations in	(2 m arks)
Test tube X	
Test tube Y	
(ii) Name the process that has taken place in test-tube X	(1 m ark)
(iii) State the significance of the process named in a (ii) above in digestion	(1 m ark)
(iv) Name the digestive juice in hum ans that has the same effect on oil as liquid B ₁	(1 m ark)
(v) Name the region in the digestive system into which the juice is secreted	(1 m ark)
(b) Label two test tubes Example F. Place 2 cm 3 of liquid B 2 into each. Add a drop of iod to each test tube.	ine solution into
(i) Record your observation	(1 m ark)
(ii) Suggest the identity of liquid B ₂	(1 m ark)
(iii) Cut out a cube whose sides are 1cm from the irish potato provided. Crush the cupaste and place the paste in the test tube labeled E. Leave the set up for at least	
Record your observation	(2 m arks)

Contents of test tubes Fafter 30 m in

- Liquid cooking oil

- B 1

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(iv) Account for the results in b (iii) above.

(1 m arks)

(c) (i) Cut out another cube whose sides are 1cm from the Irish potato apportush it. Place the crushed paste into a test tube. Carry out food test with the reagent provided. Record the procedure and results.

Food being tested	Procedure	0 beer vation	C o n c lu s i o n
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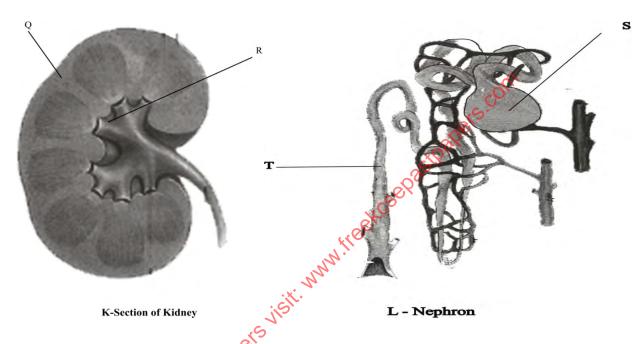
(ii) Account for the results in (c) (i) above.

(3 m arks)

Q2. The photographs labelled J, K and L are all related to mammalian kidney.



J-KIDNEY



(a) Name the hormone produced by the structure labelled P. (1 mark)

(b) Name the parts labelle (3 marks)

R

(c) State the process by which wastes are filtered from blood in the structure labelled S. (1 mks)

(d) (i) Give two components of blood that that are not filtered at structure S. (2 m arks)

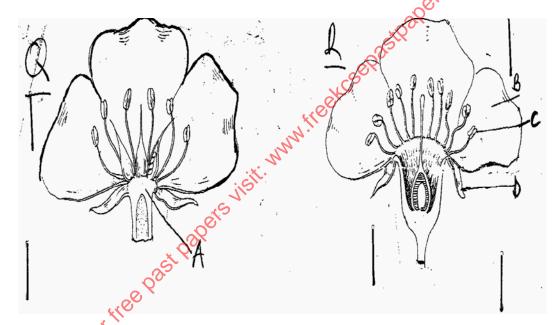
(ii) Give reason why the components you have named in d (i) above are not filtered. (2 marks)

(2 marks)

(e) Give two nutrients reabsorbed at the part labelled S.

(f) What <u>two</u> adaptations would be expected in the structure L in a desert animal like a camel. (2 marks)

3. Below are drawings of specimens from plants. Study them and answer the questions that follow



a) What is the role of the specimens to the plants. (1 mark)

b) Differentiate the specimen Q from specimen R. (2 m arks)

c) Label the parts labelled C and D (2 m ark)

	C																													
	D																													
d)	Explair	l W	h a	t h	a p	p e	n :	s t	0 1	th e	e f	l o 1	r a l	s	tru	1 C	t u	r e	Sã	a f	te r	fe r	til	i z a	ı tio	n.			(4 m	arks)

With a reason state the class of plants from which the specimens were obtained. e) (2 m arks)

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