NAME:		1,000	ADM.NO:	A STATE OF THE STATE OF		
INDEX NO:	4		DATE:	, and the second		
	4 × V	227.0	* 2 KJ			

PRE-MOCK

Kenya Certificate of Secondary
Kenya Certificate of Secondary Education

BIOLOGY

PAPER 3 (PRACTICAL)

TIME: 1 % HOURS

PAPER 3

INSTRUCTIONS TO CANDIDATES

Write your name and admission number in the space provided

Answer all the questions in the spaces provided.

You are required to spend the first 15 minutes of the 1 % hours allowed for this paper reading the whole paper carefully before commencing your work.

Additional pages must not be inserted.

FOR EXAMINERS USE ONLY.

Maximum score	Candidates score
17	THE ROBERTY
12	
11	
40	
	17 12 11

This paper consists of 5 printed pages. Candidates should check to ensure that all pages are printed as indicated and no questions are missing.

1. You are provided with specimens J,K and L.

a) Study the specimens and using observable fe use the completed key to identify the taxonomic	· · · · · · · · · · · · · · · · · · ·	omous key below and hence 3mks
1 a Animal with segmented body		go to 2
b Animal without segmented body		go to 3
2 a Animal with flattened body		Platyhelminthes
b Animal with cylindrical body		Nematoda
3 a. Animal with jointed appendages		go to 4
b Animal without jointed appendages		Annelida
4 a. Animal with more than three pairs of legs		go to 5
b		go to 6
5 a. Animal with one pair of legs per segment -		Chilopoda
b. Animal with two pairs of legs per segment - 6 a b. Animal without wings	The state of the s	Diplopoda
6 a	M	go to 7
		Isoptera
7 a. Animal with one pair of wings		Diptera
b		go to 8
8 a. Animal with two pair of membranous wings	,	Hymenoptera
b. Animal with a pair of hard forewings and a	pair of membranous hind w	ings Coleoptera
b) Identify the taxonomic group of each specimer	provided stating the steps	followed. 6mks

Specimen	Identity	Steps followed			
J					
К		34			
L.	.:				

	A Section of Section 18, 18, 18, 18, 18, 18, 18, 18, 18, 18,			New Sales
		· .		
Name the king	dom to which the specimens J,K and	d L belong.	1.3	lmk
*		1 1		
i) State two obes	ervable features that enabled you to	arrive at your angule	r in c(i) above	2mks
1) State two oose	avable leatures that enabled you to	arrive at your answer	in c(i) above.	211163
				No ald
,	***************************************			
Explain how the	e forewings and hindwings of Coled	optera are adapted to	their functions.	4mks
*			200	
			Six	
		-6	R	
			ca bullet	
	n important pollinator. State one ob	servable adaptation of	or the find limb	
this function.		William		lmks.
		77		
	for a section to the section of the			
	isl			
You are provid	ed with specimens O.R.S.T and U.			
	ed with specimens Q.R.S.T and U.	traically found and o	rive the term rice	
Suggest the hab	itat in which specimen R and S are			
) Suggest the hab	20			6mks
) Suggest the hab	itat in which specimen R and S are			6mks
) Suggest the hab	itat in which specimen R and S are			6mks
Suggest the hab describe each sp	pitat in which specimen R and S are pecimen. State one observable feature		swer in each case.	6mks
Suggest the hab	pitat in which specimen R and S are pecimen. State one observable feature		swer in each case.	6mks

(ii) State one observable adaptation		imen Q to		our ansv	wer in b	i) above.	1 m
(i) Using a glass rod provided, pres	s the stem o	f specime	n Tagain	st the b	ench.		a n
Record your observation.			, 14 <u>.</u>				ON 1m
(ii) From your observation suggest l	how the spec	cimen is a	idapted to	its habit	at.	spers.	lm
(i) What type of evolution do specin				SOL	asil		lmk
(ii) What is the biological term give			structure	s that e	chibit th	e type of	
evolution named in d(i) above?		in.	4:40				1mk
Study the photograph of specimen	X below and	d answer	the question	ns that	follow.		
				4 1 1			
						on a	
						1.6	

b(i)What type of environment is specimen Q adapted to?

3mks

3mks

a(i) Label any three parts on the diagram.

(ii) State the functions of the three parts you have labeled.

. Part	1 1		Fun	ction				-1
			. 5 .		-		1	
		V II		0		4	200	8
	2.0			1 1				

(* ,

(i) State the Kingdor	n to which the specia	men belo	ngs.	V			lmk
(ii) Give one reason	to support your answ	ver.				eis.	1mks
					Sila		
) Describe how the or	ganism feeds.		_k (©	akcsek			3mks
	************	5	nh!				
			1				Y .
		isit					
	.6	4-1					

END