231/3 BIOLOGY PAPER 3 TIME: 2 HOURS

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

Biology	
Practica	ı۱

## **INSTRUCTIONS TO CANDIDATES:**

- Write your name and index number in the spaces provided.
- Sign and write date of examination in the spaces provided above
- Answer all the questions in section A and B
- You are required to spend the first 15 minutes of the 1 ¾ hours allowed for this paper reading the whole paper carefully.

## For Examiner's Use Only:

QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
1	15	
2	15	
3	10	
TOTAL	40	

This paper consists of 4printed pages. Candidates should check to ascertain that all papers are printed as indicated and that no questions are missing

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1.	You are provided with iodine solution	on benedict's solution, solution s, solu	ation p source of heat and a
	warm water bath. Divide solution S	into two equal halves in test tubes pr	rovided. Take one halve and
	carry out the food test. Fill the table b	pelow.	(6mks)

Food	Procedure	Observation	conclusion

b) (i) Take the other half of solution S add 2ml of solution P and place the contents in a warm water bath maintained at  $37^{\circ}$ C to  $40^{\circ}$ C for 30 minutes. After carry out the same tests as in 1(a) above and record your procedure observation and conclusions in the table below.

Observation

conclusion

**Procedure** 

(4mks) Food

	(ii) Account for the results obtained in <b>b(i)</b> above	(4mks)
	(iii) Why was the solution in <b>b(i)</b> above kept in a water bath maintained at 37°C to 40°C	(1mk)
	(a) Study the photographs below and complete the Biological key below.	
	A CA	DB
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	H
	SOC MAN TO	
	(a) Wigns present	
	(a) Two pair of wings	
	(a) Both pairs of wings membranoues. go to 4 (b) Only hind wings membranoues. go to 6	
	(a) Long abdomen.Odonata(b)Medium sized abdomen.go to 5	
	(a) Both pairs of wings with coloured scales	
_	(a) Forewings with hard and shell like	
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<b>r</b>	key to identify the organisms in the photograph. (8mks)  Identity  Steps followed	
A		
В		
С		
D		
E		
F		
G		
Н		
With reasons state the	phylum to which the specim	nens in the photographs

3. Photoographs below shows responses of plants under different conditions. Photographs B<sub>1</sub> and B<sub>2</sub> shows responses of mimosa pudica before and after and that of  $C_1$  and  $C_2$  arte that of Maranta Lenconeura before and after the response. **B1** C1 D (a) Identify the kind of response shown by photographs  $B_2$ ,  $C_2$  and D(3mks)  $\mathbb{C}_2$  ..... (b) Explain how specimen **D** is able to coil around a hard object. (4mks) (c) Explain the importance of the response shown by specimen B<sub>1</sub> and B<sub>2</sub> (3mks)