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231/3	way.	
BIOLOGY	× 1	
BIOLOGY Paper 3	,	
(PRACTICAL)		
July / August 2012		

231/3 **BIOLOGY** Paper 3 (PRACTICAL) July / August, 2012 **Time: 2 Hours** 

## **TESO SOUTH DISTRICT JOINT EVALUATION TEST - 2012**

Kenya Certificate of Secondary Education – K.C.S.E

231/3 **BIOLOGY** Paper 3 (PRACTICAL) July / August, 2012 **Time: 2 Hours** 

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and Index Number in the spaces provided above.
- Sign and write the date of the examination in the spaces provided above. 2.
- 3. Answer all the questions in the spaces provided.
- 4 You are required to spend the first 15 minutes of the 1 3/4 hours allowed for this paper reading the whole paper carefully before commencing your work.
- 5. Additional pages must not be inserted.

## FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	15	
2	10	
3	15	
TOTAL SCORE		

This paper consists of 8 printed pages.

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

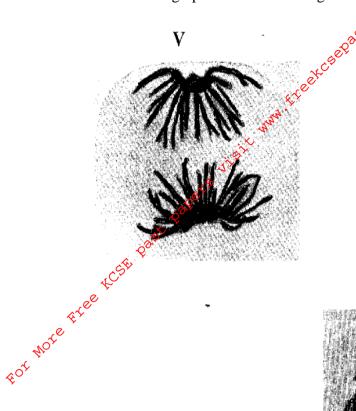
1. (a) You are provided with liquids labeled T and S. Select and use the reagents provided to test for © 2012 Teso South District Academic Committee. Biology 231 /3 Turn Over

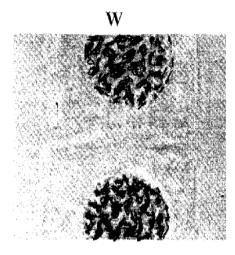
food substances present in liquid T.

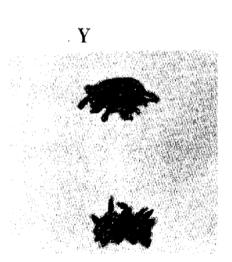
Γ= · · ·			
Food substance	Procedure	Observation	Conclusion
Food substance	isix wan freeker		
Ĭ δ			
D <sup>Y</sup>			

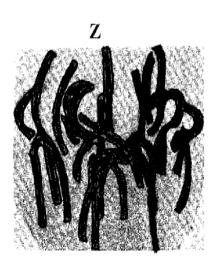
	(b)	Put 1 cm <sup>3</sup> of liquid T in a test tube. Add three drops of liquid S and shake. Record your		
		observation.	(1 mk)	
		C. C		
	(c)	Name the part of human alimentary canal where the process observed in (b) above	occurs	
		i six	(1 mk)	
	(d)	State the biological significance of the process named in (c) above in man.	(2 mks)	
	4.CS	<u>&amp;</u>		
ofe fitee				
). J.				

2. The micrograph below shows stages in a type of cell-division that occurs in organisms.









(a)	State the type of cell-division.	(1 mi

(b)	Identify the stages indicated by letter	(4 mks)
	V	
	<u>e</u> Z <sup>3±</sup>	
	V	
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	and the second s	
	as	
a SE	$\mathbf{z}$	
,cs <sup>©</sup>		
•••••		
(c)	Name the type of cells in which the above process occurs.	(l mk)
(-)		()
(d)	State <b>two</b> significance of this type of cell-division.	(2 mks)
(u)	state <u>two</u> significance of this type of cent division.	(2 mks)
•••••		
•••••		
•••••		
•••••		
•••••		•••••
(e)	From the micrograph, suggest with reason (s) whether the cell-division s	hown occurred in
(0)	plants or animals.	(2 mks)
	plants of animals.	(2 IIIKS)
• • • • • • • • • • • • • • • • • • • •		
•••••		•••••
•••••		
•••••		•••••

3. The photographs below are of flowers of different plants. Flower  $P_1$  and  $P_2$  are from the same plant.



	(a)	Identify the flowers type in photograph $P_1$ and $P_2$ .	(2 mks)
		P <sub>1</sub>	
		e de la companya del companya de la companya del companya de la co	
		and Exec	
		P <sub>2</sub>	
		Q <sup>aZerc</sup>	
		Q <sup>ago</sup>	
voze ézee	(b)	(i) Suggest the likely agent for pollination for the flower.	(1 mk)
note			

	Pollination in b (1) (6mks)	
	Pollination in b (1) (6mks)	
	84g	
	The state of the s	
• • • • • • •	ė <sup>X</sup>	
	······································	
,	o <sup>a</sup>	
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······		
(c)	Give the class to which the plant from which flower P <sub>1</sub> and P <sub>2</sub> were obtained.	
	Give a reason. (2mk	:)
	Class:	
	Reason:	