DATE	SIGN
NAME	ADM

231/3

**BIOLOGY PRACTICAL** 

PAPER 3

TIME: 1 ¾ HOURS

## KCSE TOP PREDICTION MASTER CYCLE 1

## **INSTRUCTIONS TO CANDIDATES**

- Answer all the questions in the spaces provided.
- You are required to spend the first **15** minutes of **1** % hours allowed for this paper reading the whole paper carefully before commencing your work.
- Candidates may be penalized for recording irrelevant information and for incorrect spelling especially of technical terms.

## FOR EXAMINER'S USE ONLY

Question	Max Score	Candidate's Score
1	12	
2	13	
3	15	
TOTAL	40	

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

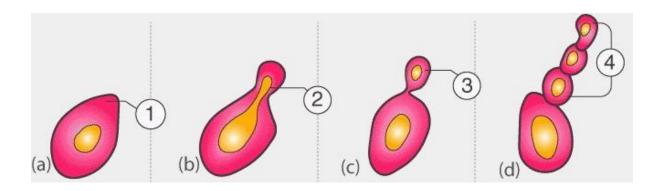
1.	You are provided with a nutritional supplement labelled S, distilled water and a boiling tube. Put about 6ml of the distilled water in the boiling tube and add the nutritional tablet to dissolve it. Use the reagents provided to find out the food substances present in the tablet. (12 mks)

Food substance	Procedure	Observation	Conclusion

2. a) (i) You are provided with a pestle, mortar, scapel, **specimen Q** and **R**. Cut from each a cube, each measuring 1cm by 1cm. put them each in a different test tube having 10mls of solution **X**. Record the observations in the table below? (2 marks)

	Specimen	Observation
	Specimen Q	
	Cnaciman D	
	Specimen <b>R</b>	
(ii) Account f	For the observations in the	experiment involving specimen Q and R? (2 marks)
•••••	• • • • • • • • • • • • • • • • • • • •	
•••••		
		n of <b>specimen Q</b> , Cut 2 other pieces measuring 1cm by
		y to form a paste and put them in boiling tubes labelled
A ar	nd <b>B</b> .	
т	o the paste in boiling tube	e labelled A, add 5mls of solution X. Record the
	bservation in the table bel	
Г	To the paste in boiling tub	e labeled <b>B</b> add 10mls of distilled water and boil for
		ol then add 5mls of solution <b>X</b> . Record the observation
i	n the table below.	(2 marks)
	BOILING TUBE	OBSERVATION

	A		
	В		
	Б		
		1	
ii) A	Account for the observation	ons in the experiment involving boiling tul	be A and B
			(4 marks
	Boiling tube <b>A</b>		
			• • • • • • • • • • • • • • • • • • • •
	Boiling tube <b>B</b>		
	Bonning table B		
	Name the biological subs living tissues	stance being investigated and its significan	ce to the (2 marks)
			,
	Significance		
			• • • • • • • • • • • • • • • • • • • •
iv) Na	me the factor being inves	stigated in question 2(b) above	(1mark)
The di	agrams below show a metl	hod of reproduction.	



(a). Name the mode of reproduction above and give an example of organism where it occ $2m$		
(b).Briefly explain how the process occurs (4mks		

## (c) Study the following photograph and answer the questions that follow



(d)Describe the features of the above photograph with respect to the following	(3mks)
(i) Androecium	
(ii) Gynoecium	(3mks)
(e) (i)Suggest the agent of pollination of the flower	(1mk)
(ii)Explain how it is adapted to pollination agent you have named in (b)(i)abov	ve ( <b>2mks</b> )

