



UCE MOCK EXAMINATIONS 2016

PAPER 2 TIME 2 HOURS

INSTRUCTIONS

Answer all questions
Drawings should be done in the spaces provided
Use sharp pencils for your drawings
Coloured pencils or crayons should not be used.

- You are provided with solution X which contains a food nutrient and chemical reagent Z label test tubes
 A to F
- Using a dropper or measuring cylinder, measure the following quantities of solution X into test tubes Labeled A to E

Table 1

Test tube	A	В	C	D	E
Volume of X (cm3)	1	2	3	4	5

- Increase the total volume of solutions in the test tubes A, B, C, D and E to uniform volume of 5 cm³ by adding water.
- ii) Record the volume of water added to each test tube in table II below. (02 1/2 marks)

Test tube	A	В	C	D	E
Volume of water (cm3)					

iii) Measure 1 cm3 of solution Z into test tube F

Using a dropper, add solution X from test tube A drop wise to solution Z in test tube F, while shaking the test tube.

Count the number of drops required to decolourise solution X and record your results in table III

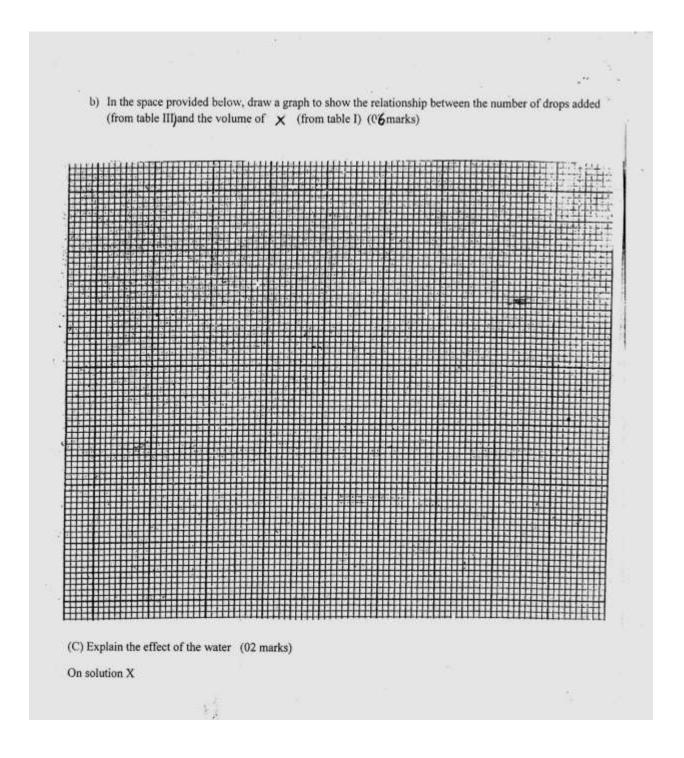
Pour the mixture in test tube F and wash it thoroughly

Repeat the procedure above using solution X from test tubes B, C, D and E. (02 marks)

Table III

Test tube	A	В	C	D	E
Number of drops added to					
decolourise solution Z					







d) Giving a reason, sugges	t the identity of		
i) Food nutrient in solution		11	(04 marks)
Reason.			
ii) Solution Z			
		20.	
Reason.			
e) State ⊷¢ biological importa	nce of food nutrient In solu	tion v	(01 ma
e) State 100 biological importa	nce of rood fidurent in sore	ation x	(OT III
f) What conclusion can be mad	le from the results of in (a)	above.	(01 ma
	12.3		
	4		
- 0			
ωδ.	A.		*
7 Å			
75			





	39
You are provided with specimen K,L and M	which are from the same animal
From which part of the animal was each spec	cimen taken
K	2
74	
L	
0.0	
M	
Give three functions common to specimens I perform their functions,	K, L and M and the feature that enable the sp (06 ma
function	Feature
	#2, N
24-1	
State three observable differences between sp	nasimans L and M (03 marks)
State three observable differences between s	pecimens L and M. (03 marks)
Specimen L	Specimen M
Specimen L	Specimen ivi
	1



Bone (s) at upper (anterior) end	2013	
Joint at upper end		
Bone (s) at lower (posterior) end		
3.		778
Joint at lower end		
	200	



You are provided with specimen P and Q which a	re t	plan	it parts
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a) Giving two reasons, name the part of the plant to which specimens P and Q belong. (02 marks)
 Part of the plant.

Reasons

b) Describe the following structures of specimen P and Q (08 marks)

Structure	Specimen p	Specimen Q	
Stamens			
Pistil			
		4	



c) i) State the agent of pollination for specimen P

(01 mark)

ii) How is specimen P adapted to being pollinated by the agent mentioned in c (i) above (03 marks)

d) Remove the sepals and stamens from specimen Q

Draw and label the remaining part of the specimen. (06 marks)