

..CLASS..... ... NAME.... ADM..... FORM FOUR BIOLOGY MID - TERM EXAMINATION Time 11/2 hours Term I 2015. Answer all the questions in the spaces provided in the question paper. A student set up an experiment as shown in the diagram below. (1mk)(a) What was being investigated in the expriment. (b) On the diagram below, indicate the expected results after 2 days. (2 mks) (c) Give the reason why the cotton wool in the container was moist. (1mk)

(d) What is the role of each of the following to a germinating seed Oxygen (i)

(2mks)

Cotyledon (ii)

(1mk)

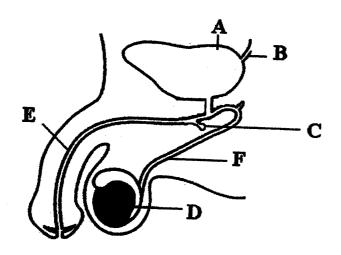
(e) Small seeds require light immediately after germination. Explain

(lmk)

(f) State four roles of water in germination.

(4mks)

2. The diagram below shows the male reproductive system.



a) Give the letter of the structure on the diagram that matches each of the following descriptions.

i) Where sperms are formed

(1mark)

ii) The ureter

(1 mark)

i) Tube that would be cut if the man was to be sterilized.

(1mark)

iv) Where urine is temporarily stored

(1mark)

b) Complete the sentence below.

(2 marks)

	Sperms are deposited close to the cervix, and swim from there to the				
	fertilization is calledwhere fertilization takes place. The new cell formed after				
<b>c)</b>	Gonorrhea is a disease that is spread by sexual intercourse. Give two ways by which the spread of gonorrhea can be reduced. (2 marks)				
3.	time.	ied out an experiment to investigate		be against	
		Time in minutes	Length of pollen tube in milli		
		0	0	meters	
		20	4		
		40	9		
		60	15		
		80	20		
		100	21	•	
		120	22		
	(a) Plot a graj	ph of pollen tube length against tim	e on the graph paper provide	(6mks)	
•			o on the Brahm paper provide	(oniks)	
	(b) (i)Determ	ine the growth rate between 80 min	ute and 34 minute	(2mks)	
			•••••	•••••	
		•••••			
	445			••••••	
	(ii) What wa	s thelentgh of the pollen tube at 90		(1mk)	
,	••••••			********	
	(iii) AT what	time was the length of the pollen tu	be was 18mm	(1mk)	
		•••••••••••••••••••••••••••••••••••••••		•••••••	

(c) With reasons, describe the growth pattern of the pollen tube between	
(i) 0-80 minutes	(2mks)
•••••••••••••••••••••••••••••••••••••••	
(ii) 80-120 Minutes	(2mks)
(d) Give the importance of the growth of pollen tube to the plant	(2mks)
(e) Mention the changes that take place in a flower after fertization	(4mks)
••••••	• • • • • • • • • • • • • • • • • • • •