FORM FOUR CLUSTER KCSE MODEL11

BIOLOGY PAPER 3 QUESTIONS

The figure below a) Name the sys	w represents a system in a mamm stem shown above. (1 mark)	al and associated organs. Examine it carefully.
b) Name parts F	P, R, S and T. (4 marks)	
R S T		roduced by part S. (2 marks)
•	eatures that increase the surface are	ea of part T. (3 marks)
attached]		obtained from a plant stem. [Micrograps om which the cross section 2 was obtained.(1
Habit		Reason
b) State the par $(1\frac{1}{2}$ marks)	t and the class of a plant from wh	ich the cross section I was obtained. Give reasor
Part	Class	Reason
On the micro 1	label three parts. (3 marks)	
d) You are provi that follow.	micrograph 2 identify and label the ided with specimen P belonging to atte the class to which the specime	e air canal and epidermis. (2 marks) animalia kingdom. Study and answer question
	ate the class to which the specime	, ,
Class		Reason
Remove one of marks)	the gills and examine it carefully u	I ile. Remove the operculum to expose the gills. using a hand lens. Draw and label the gill.(2 unctions. (2 marks)
You are provide	d with an irish potato tuber and tw	vo solutions L1 and L2. Push a cork borer through to obtain 3 potato cylinders. Trim the ends to cylinders in L1 obtain 3 similar cylinders of 1.5 cm
long each and p	to tabel is 1.5cm long, rut the 5 C	zymnaera ini er obtani a anninar cynnaera di 1.3 C

Solution	Cylinder	Initial length(mm)	Final length(mm)	Average change in length(mm)
L1	1	150	***************************************	***************************************
	2	150		
	3	150	***************************************	
L2	1	150	*************************	***************************************
	2	150		
	3	150		***************************************

(ii) State the nature of solution L1 and L2. (2 marks)
b) Explain the differences in the average change in length of potato cylinders between solution L1 and L2. (4 marks)
c) i) Name the physiological process being investigated. (1 mark)
ii) Give four roles of the process you named in d (i) above in plants. (4 marks)