1. You are provided with specimens A, B and solution Q. Peel specimens A and B.

Cut four cubes from specimen A. each measuring  $1 \text{cm} \times 1 \text{cm} \times 1 \text{cm}$ . Also cut one cube from specimen B of the same size. Carry out the procedure below.

(i) Cut one of the cubes of A into four equal pieces.

(ii) Cut the second and third cube, each into eight equal pieces.

(iii) Leave the fourth cube intact.

- (iv) Cut the cube of specimen B also into eight equal pieces.
- (v) Label the boiling tube as  $A_1$  and four test tubes as  $A_2$ ,  $A_3$ ,  $A_4$  and  $A_5$
- (vi) Boil the eight pieces cut from the third cube of A in 5cm<sup>3</sup> of water for 5 minutes. (keep the pieces of each cube separate)
- (vii) Measure and add 5 cm<sup>3</sup> of solution Q to the boiling tube and to each of the test tubes A<sub>2</sub> to A<sub>5</sub>.
- (a) To each test tube and boiling tube, add the cut cubes as indicated in table 1 below.

Record your observations and deductions

(10 marks)

TABLE 1			
Test tube Boiling tub	Contents	Observations	Deductions
$A_1$	Q + intact cube of A		
A <sub>2</sub>	Q + four pieces of A		
$A_3$	Q + eight fresh pieces of A		
$A_4$	Q + eight boiled pieces of A		nci estO
$A_5$	Q + eight Pieces of B		Laror

(p) E	xplain the difference in your results in test tubes;	(00
	) $A_1$ and $A_2$	(02 marks)
(ii	$A_3$ and $A_4$	(02 marks)
		111111111111111111111111111111111111111
(iii	$A_3$ and $A_5$	(02 marks)
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	mrand i i i i i i i i i i i i i i i i i i i	
		(02 1-)
(c) Stat	e what was being investigated in this experiment.	(03 marks)
-		
		(01
d) State	the role of specimen A and B in the experiment.	(01 mark)
<u> </u>		
ou are prov	ided with specimens K and L which are animal structure	es.
With r	easons, state the identity of the animal structures.	
Identit	/;	(01mark)
Reason		(02 marks)
		Turn Ove