1. You are provided with a plant structure Q, solution H and distilled water. Using cork borer and razor blade, make five cylinders from plant structure Q. Trim each of the cylinders to measure 2.0cm in length. Label five test tubes as 1, 2, 3, 4 and 5. Place one cylinder in each of the test tubes. Boil cylinder in test tube 5, pour off the hot water and allow the cylinder to cool while inside its test tube.

a) Carry out the tests in Table 1 below. Record your observations and the time taken for each of the cylinders to float.

marks)

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Table 1 Procedure	Observation	Time in seconds	
i) To the cylinder in test tube 1, add 5cm³ of solution H	V. C.3OU	SSHU ANKOLE	
ii) To the cylinder in test tube 2, add 2cm³ of distilled water, followed by 3cm³ of solution H.	E mones entod S	TALERONS TO CO	
iii) To the cylinder in test tube 3, add 4cm³ of distilled water, followed by 1cm³ of solution H.		D. many should be to the should be to th	
iv) To the cylinder in test tube 4, add 5cm³ of distilled water.	¢	Work on add worst	
v) To the cylinder in test tube 5, add 5cm³ of solution H			

b)	State the factors being investigated in the experiment.	(2marks)

c) Expla	Test tube 1 (8marks)
ii)	Test tube 3
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iii)	Test tube 4
iv)	Test tube 5
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	nat would be the effect of using several smaller pieces of cylinders structure Q in test tube 1? (1 ½ marks)
013	Structure Q in test tube 1: