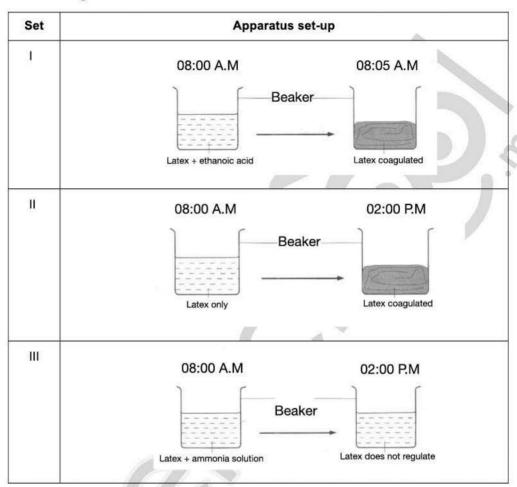
Chemistry Paper 3



[50 marks] Answer All Questions

1. Diagram 1 shows three sets, Set I, Set II and Set III of the apparatus set up for an experiment to investigate the effect of ethanoic acid and ammonia solution on the coagulation of latex.



(b) Record the time taken for the latex to coagulate in set I and II.

Set I: Set II:

Construct a table to record the time taken for coagulation of latex in Set I and set II.

[3 marks]

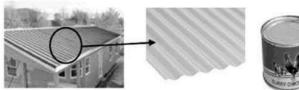
[3 marks]

[3 marks]



	Set Observation	
	I	
	II	
	III	
State or	one inference from the experiments.	
SS 34 C. S. N. D. S. C. S. S.	talester de halester de Nobland en Managerennoù Armane (diche e par Nor-	
State th	he operational definition for the coagulation of latex.	10
	on the experiment, state:	
(i)	The manipulated variable:	
(ii)	The responding variable :	
(iii)	The constant variable :	
(i)	Excess nitric acid is added to the beaker in set III after 2.00 p.m. What observation can be made about the latex?	
		-
(ii) Exp	plain the answer in $1(h)(i)$.	
Danalain	n why latex can coagulate without acid in set II.	
схріан	ii why fatex can coagulate without actum set fi.	
(i)	Give reason why the latex in set II coagulates slower than the latex in se	t I.
57		
(ii)	The following is a list of chemical substances: • Hydrochloric acid • Sodium hydroxide • Propanoic acid	
	Hydrochloric acidSodium hydroxide	

One day, Ahmad and his friends went to the supermarket. They saw several food in a can which are not easily corroded. They also saw a galvanized zinc roof which is made from iron coated by zinc layer as diagram 2.



Galvanised zinc roof



Food can

Diagram 2

Refering to above example, plan a laboratory experiment to investigate the effect of other metals on the rusting of iron. You are given iron nails, magnesium ribbon, zinc strip, copper strip and tin strip. Your planning should include the following:

- (a) Statement of problem
- (b) All the variables
- Statement of hypothesis
- List of materials and apparatus
- Procedure of the experiment
- (f) Tabulation of data

[17 marks]

END OF QUESTIONS PAPER