## Manufature and Uses(Sulfur) Question Paper

Level	IGCSE
Subject	Chemistry
Exam Board	CIE
Торіс	Sulfur
Sub-Topic	Manufacture and uses (Includes Sulfur dioxide questions)
Paper Type	Alternative to Practical
Booklet	Question Paper

Time Allowed:	36 minutes
Score:	/30
Percentage:	/100

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1 A student reacted excess iron powder with sulfuric acid to prepare a solution of iron(II) sulfate.

The diagram shows the procedure followed in three stages.

2



2 Hydrochloric acid reacts with aqueous sodium thiosulfate to form a precipitate, which makes the solution turn cloudy.

The formation of the precipitate can be used to show how fast the reaction proceeds, using the apparatus shown below.



A student used this method to investigate the effect of changing the concentration of the sodium thiosulfate solution on the speed of the reaction. The student used different concentrations of sodium thiosulfate solution. All other variables were kept the same.

(a) Give two variables which were kept the same in the investigation.

1.	 
2.	 [2]

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The results of the experiments are shown plotted on the grid below.



**3** Sulphur dioxide gas is denser than air and soluble in water. A sample of sulphur dioxide can be prepared by adding dilute hydrochloric acid to sodium sulphite and warming the mixture. Study the diagram of the apparatus used.



4 Ammonia is produced when aqueous sodium hydroxide is warmed with ammonium sulphate. Ammonia is less dense than air and very soluble in water. The apparatus below was used to prepare a sample of dry ammonia gas.

