



CHAPTER 1: INTRODUCTION TO CHEMISTRY



Extra practice

Objective Questions

- 1 A scientific model has been accepted previously. However, an investigation which has been carried out recently shows that the model is not reliable. It cannot explain the results of certain recent experiments. The scientist who has carried out the recent investigation should recommend that...
- A the recent investigation be ignored.
 - B the deduction made previously be rejected.
 - C the model be immediately discarded.
 - D the model be modified in the light of the new experiments.
- 2 Diagram 1 shows the apparatus set up to collect a gas.

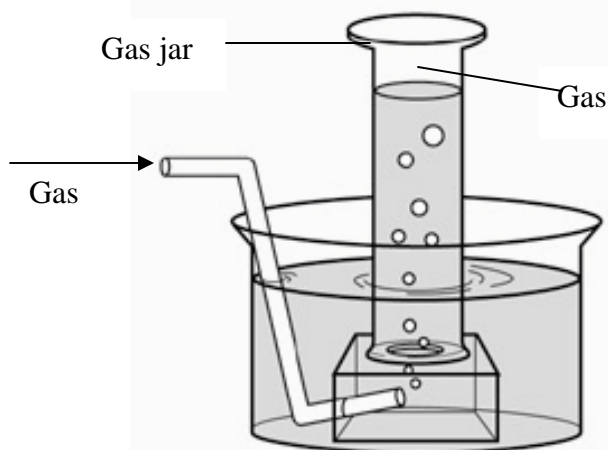


Diagram 1

Which of the following gases can be collected by this method?

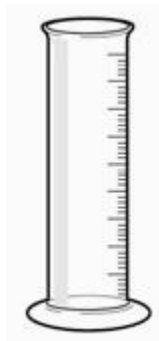
- A Sulphur trioxide
- B Oxygen
- C Ammonia
- D Hydrogen chloride

- 3 A student needs to measure exactly 21.5 cm^3 of water. Which piece of apparatus should he use?

A



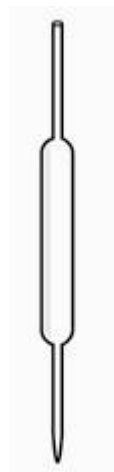
B



C



D



- 4 A student wishes to separate sodium chloride and sand from a mixture of fine solid sodium chloride and fine sand. Which of the following methods can the student use?
- A Shake the mixture with water and distil out the water
 - B Heat the mixture and collect the substance that boils off
 - C Shake the mixture with water, filter and evaporate the filtrate
 - D Heat the mixture gently and collect the substance that melts

- 5 After carrying out an experiment, a student made the following statement.

“The higher the temperature is, the higher the solubility of copper(II) sulphate will be”

This statement is...

- A a hypothesis.
- B a theory.
- C a conclusion.
- D an inference.