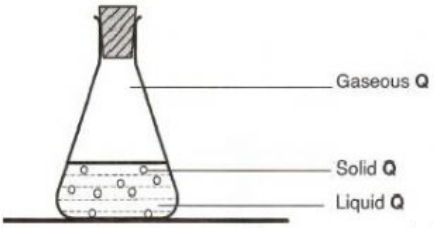
TOPIC 3.2: STATES OF MATTER

1. Which of the following best describes solids?
(SPE/2010/Q6)

   A. Have fixed volume, fixed shape and do not flow.
   B. Have fixed volume, no fixed shape and do not flow.
   C. No fixed volume, fixed shape and flow in all directions.
   D. No fixed volume, no fixed shape and flow in all directions.

2. The closed flask shown in figure below contains a compound Q in the solid, liquid and gaseous states. Which statement is correct?
(SPE/2012/Q24)



   A. Gaseous Q particles move freely in all directions.
   B. Gaseous Q particles vibrate at fixed positions.
   C. Liquid Q particles move freely in all directions.
   D. Solid Q particles can move freely in the flask.

3. Which of the following correctly states the arrangement and movement of gas particles?
(SPE/2014/Q5)

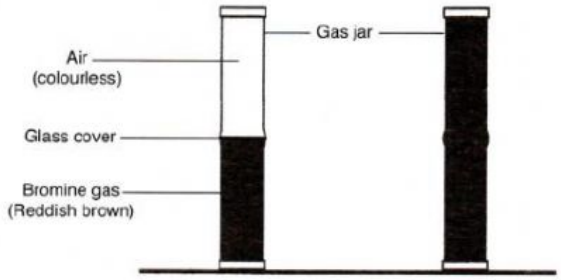
	Arrangement	Movement
A.	Far apart from each other.	Move freely in any direction.
B.	Far apart from each other.	Move by vibrating in fixed position.
C.	Packed very close together.	Move freely in any direction.
D.	Packed very close together.	Move by vibrating in fixed position.

4. Which of the following substances contain particles that occupy the whole space of its container?
(SPE/2015/Q8)

   A. Chlorine gas.
   B. Water.
   C. Oil.
   D. Wood.

TOPIC 3.3: DIFFUSION

1. Walid carried out an experiment as shown in figure below. Name the process shown in this experiment.
(SPE/2012/Q26)



A. Condensation.
B. Diffusion.
C. Evaporation.
D. Sublimation.

2. A few drops of food colouring was placed at the bottom of a glass mug containing water.
Which diagram shows the appearance of the glass mug after one day?
(SPE/2014/Q6)