

CLASS – IX
SUBJECT – CHEMISTRY
ASSIGNMENT [S.A.I.]

SECTION A

Q1 What do mean by atmospheric pressure? What are the units of atmospheric pressure?

Q2 What is Graham's Law of diffusion?

Q3 Apart from solid, liquid and gas, what are the other two states of matter?

Q4 A punctured tyre becomes flat more easily in summer than in winter. Explain.

Q5 Which of the following is not a matter?

- a) Fog
- b) Humidity
- c) Melting point
- d) Blood

Q6 How will you demonstrate that temperature remains constant during the conversion of solid into liquid?

Q7 What do you mean by Latent heat of vaporization?

Q8 Why is ice rubbed on a burnt part of the skin?

Q9 What are metalloids?

Q10 Calculate the mass of glucose and mass of water required to make 250g of 25% solution of glucose.

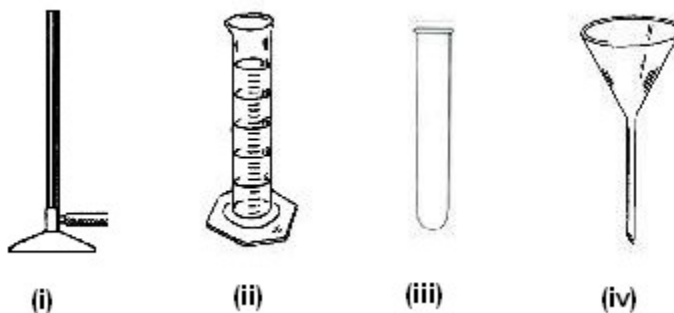
Q11 Salt can be recovered from its solution by evaporation. Suggest some other techniques for the same.

Q12 Name the process associated with the following:-

- a) A acetone bottle is left open and the bottle becomes empty.
- b) Milk is churned to separate cream from it.
- c) Fine beam of light entering through a small hole in the dark room illuminates the particles in its path.

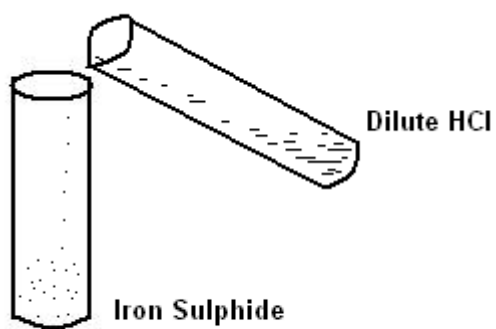
SECTION B

Q13 In the diagram, Test tube, Graduated cylinder, Burner and Funnel are respectively shown in which sequence:-



- a) (i) (ii) (iii) (iv)
- b) (iii) (ii) (i) (iv)
- c) (iii) (ii) (iv) (i)
- d) (iii) (i) (ii) (iv)

Q14 In the experiment shown a gas is evolved. Four groups of students have recorded their observations on the gas produced as shown in the following table. Choose the correct set of observations. Note that the positive response is shown by '✓' and negative by 'X' sign.



	Color of the gas	Odour of the gas	Flammability	Action on lead acetate paper
a)	X	√	√	X
b)	X	√	X	√
c)	√	√	X	√
d)	X	X	√	X

Q15 The colour of $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ is :-

- a) Brown
- b) Dirty white
- c) Green
- d) Blue

Q16 Sodium Sulphate and Barium Chloride solutions are mixed in a test tube. The observation made is :-

- a) A yellow precipitate is formed
- b) A white precipitate is formed
- c) A colourless gas is evolved
- d) Greenish yellow gas is evolved

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