

CHEMISTRY**1. Write a suitable term for the following:**

- a. The symbolic representation of one molecule of a compound.
- b. Process by which a liquid rapidly change into gas on heating.
- c. The temperature at which a liquid boils and changes rapidly into a gas.
- d. The force of attraction between molecules of the same substance.
- e. A thing which occupies space and has mass.

(5)

2. Correct the following statements:

1. The melting point of tungsten is 0°C .
2. At boiling point the substance occurs in both solid and liquid state.
3. Liquids are highly compressible.
4. The matter in the sun is in solid state.
5. Gases can be heaped.
6. Handpicking is used by farmers to separate husk from grain.

(6)

3. Choose the correct answer from the bracket and fill up:

1. A soluble solid can be separated from its salt solution by the process of -----.

(evaporation, distillation.)

2. Process of separating a liquid from its soluble salt solution is by -----.

(filtration, distillation.)

3. Inter conversion of states of matter is a ----- (physical change, chemical change.)

4. The force of attraction between a solid is ----- (maximum, minimum.)

5. On heating particles of liquid move ----- (slowly, faster.)

6. Cream is separated from milk by ----- (filtration, centrifugation.)

(3)

4. Write latin names of the following elements.

(a) Mercury (b) Tin (c) Gold (d) Silver (e) Lead

(5)

5. Write symbols of the following elements.

(a) Bromine

(b) Copper

(c) Chlorine

(d) Manganese

(e) Iron

(5)

6. Define the following:

1. Melting

2. Atom

3. Distillate

4. Sediment

5. Element

7. Write the formula of the following compounds:

1. Sodium hydroxide .

2. Calcium carbonate .

3. Zinc oxide.

4. Steam.

5. Magnesium sulphide .

8. What does 2KNO_3 represent ?

9. Answer the following questions ;

1) What happens when a liquid is heated?

2) Why a gas have neither definite shape nor definite volume?

3) What is a molecule? Name a liquid molecule?

4) What do you know about noble gas? Give two examples?

5) What is Brownian movement.? Why is it negligible in solids?

10) Give reasons for the following:

- 1) Heating of limestone is a chemical change.
- 2) An inflated balloon will burst when kept in warm water.
- 3) A liquid on cooling changes into solid.
- 4) Liquids cannot be held without a container.
- 5) Water level does not rise when sugar is added to water. (10)

11. a. Define cohesive force. How does its value change for three different States of matter? (3)
- b. With the help of a diagram prove that liquids take the shape of the vessel. Which another property also you can observe in this? (3)
- c. How is diffusion varied for three states of matter? (3)
- d. How will you separate a mixture of common salt and ammonium chloride? (3)
- e. With the help of a diagram explain how will you separate the constituents from the suspension of mud and water? Explain what is the residue and the filtrate? (4)
- f. What is sedimentation? Name the clear liquid collected at the top?
What is distillation? What is the use of this method? (4)
- g. How will you prove that gases take the shape of the container? (2)
- h. How will you separate the constituents present in the mixture of sulphur and sand? (2)