

ICSE Class 7 Chemistry Important Questions

1. Choose the correct answer out of the four available choices given below each question.
 - (a) The _____ substances do not have their own definite shape and volume.
 - i. crystal
 - ii. Solid
 - iii. Liquid
 - iv. Gaseous
 - (b) Metals react with dilute acids to liberate _____ gas.
 - i. Sulphur
 - ii. Oxygen
 - iii. Hydrogen
 - iv. Chlorine
 - (c) A solution which cannot dissolve more of solute at a given temperature is called _____.
 - i. Unsaturated solution
 - ii. Saturated solution
 - iii. True solution
 - iv. Colloid solution
2. Give the chemical formula for the following:
 - i. Caustic soda
 - ii. Nitric acid
 - iii. Lead nitrate
 - iv. Blue vitriol
 - v. Vinegar
3. Fill in the blanks and rewrite the sentences:
 - i. Manganese dioxide acts as a _____ during the formation of oxygen.
 - ii. On burning a candle, _____ and _____ are formed.
 - iii. When ammonium chloride is dissolved in water, heat is _____.
 - iv. A sublimable solid on heating turns into _____.
 - v. Adding salt to water increases the _____ point of water.
4. State whether True or False.
 - i. Marble is a hydrated calcium sulphate.
 - ii. Oxygen burns in an atmosphere of acetylene producing very high temperatures which is used for welding and cutting metals.
 - iii. Metals occur in nature in both free and combined states.
 - iv. Rusting is a slow oxidation process in which iron slowly reacts with oxygen of the air in the

presence of moisture.

- v. Water freezing into ice is an example of chemical change.

5. Match the following:

| | |
|---|----------------|
| Solid 'X' to Liquid 'Y' | Liquefaction |
| Liquid 'X' to its vapours 'Z' | Solidification |
| 'Z' to 'X' | Melting |
| 'Y' to 'X' | Boiling point |
| The temperature at which 'Y' changes to 'Z' | Vaporisation |

6. Write the valency and the symbols for the following elements:

- Oxygen
- Sulphur
- Bromine
- Chlorine
- Carbon

7. Give the chemical name for the following:

- NaOH
- KOH
- NaHCO₃
- CaO
- H₃PO₄

8. Addition of curd to milk is a chemical change. Why?

9. Explain why Burning of sulphur powder is a chemical change.

10. Explain the term catalyst and its types.

11. Define Chemical equation.

12. What are Reactants?

13. What is meant by Products?

14. Write a short note on balanced equation.

15. Explain Catalyst.

16. Compare in tabular form properties of Solids, Liquids and Gases with respect to :

- i. Shape
- ii. Volume
- iii. Compressibility
- iv. Diffusion
- v. Fluidity or Rigidity

17. Define mixture.

18. Explain the term atomicity in detail.

19. Give the differences between elements and compounds.

20. What are the different types of mixture?

