



MULTIPLE CHOICE QUESTIONS

- Which of the following is a characteristic of metals?
 - They have one to three valence electrons.
 - They have 4 to 8 valence electros
 - They are brittle
 - They are capable to form anions easily.
- A metal which does not react even with the steam
 - Copper
 - Sodium
 - Magnesium
 - Aluminium
- Which of the following statements is correct about ionic compounds?
 - They conduct electricity in solid state.
 - They conduct electricity in aqueous solutions.
 - They conduct electricity in molten state.
 - (i) only
 - (ii) only
 - (iii) only
 - (ii) and (iii)
- Metals are refined using different methods. Which of the following metals are refined by electrolytic refining?
 - Au
 - Cu
 - Na
 - K
 - (i) and (ii)
 - (i) and (iii)
 - (ii) and (iii)
 - (ii) and (iv)

5. Aluminium is used for making cooking utensils. Which of the following properties of aluminium are responsible for the same?
- (i) Good thermal conductivity
 - (ii) Good electrical conductivity
 - (iii) Ductility
 - (iv) High melting point
- (a) i and ii
 - (b) i and iii
 - (c) ii and iii
 - (d) i and iv

ASSERTION-REASONING QUESTIONS

For the following questions, two statements are given-one labelled Assertion (A) and the other labelled Reason(R). Select the correct answer to these questions from the options

(i) , (ii), (iii) and (iv) as given below:

(i) Both A and R are true and R is the correct explanation of the Assertion. (ii) Both A and R are true but R is not the correct explanation of the Assertion. (iii) A is true but R is false.

(iv) A is false but R is true.

6. Assertion:- Elements Pt, Ag, and Au occur in native state in nature.
Reason:- Elements which are attacked by moisture, oxygen and CO₂ of air occur in native state.
7. Assertion:- Magnesium chloride is an ionic compound.
Reason:- Metals and non-metals react by mutual transfer of electrons.
8. Assertion:- Aluminium oxide is an amphoteric oxide
Reason:- Aluminium oxide reacts with both base and acid to form salt and water.
9. Assertion:- MgO exists in liquid state.
Reason:- The electrostatic force of attraction between Mg²⁺ and O²⁻ ions constitute ionic compound.

ONE MARK QUESTIONS

10. $X + YSO_4 \rightarrow XSO_4 + Y$ and
 $Y + XSO_4 \rightarrow$ No reaction. Out of the two elements X and Y, which is more reactive and why?
11. Carbon does not react with the oxide of Na or Mg. Give reason.
12. Give reason

- (a). We can store Copper sulphate solution in a Silver vessel but not Silver nitrate solution in a Copper vessel
- (b) Food cans are coated with Tin rather than Zinc.
13. At ordinary temperature, the surface of metals like Magnesium, Aluminium, Zinc etc. is covered with a thin layer. What is the composition of this layer and what is its importance?

TVSS