



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?
14. Draw the electron dot structure of ethane, ethene, ethyne.
15. Draw the electron dot structure of CCl_4 , CO_2 .
16. Differentiate between ionic and covalent compounds.

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