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Questions:

2 Marks ANSWER ANY 6

1. Give an example of a metal which
   (i) is a liquid at room temperature.
   (ii) can be easily cut with a knife.
   (iii) is the best conductor of heat.
   (iv) is a poor conductor of heat.

2. Why is sodium kept immersed in kerosene oil?

3. Give the formulae of the stable binary compounds that would be formed by the combination of following pairs of elements.
   (a) Mg and N_2
   (b) Li and O_2
   (c) Al and Cl_2
   (d) K and O_2

4. An element A reacts with water to form a compound B which is used in white washing. The compound B on heating forms an oxide C which on treatment with water gives back B. Identify A, B and C and give the reactions involved.

5. Give reason:
   (i) Sodium metal is stored under kerosene oil.
   (ii) Inspite of being highly reactive, aluminium is still used for making utensils.

6. A metal 'X' combines with a non-metal 'Y' by the transfer of electrons to form a compound Z.
   (i) State the type of bond in compound Z.
   (ii) What can you say about the melting point and boiling point of compound Z?
   (iii) Will this compound dissolve in kerosene or petrol?
   (iv) Will this compound be a good conductor of electricity?

7. Give three points of difference between metals and non-metals based on physical properties.

Multiple Choice Question

8. The composition of aqua-regia is
   (a) Dil.HCl : Conc.HNO_3 [3 : 1] (b) Conc.HCl : Dil.HNO_3 [3 : 1] (c) Conc.HCl : Conc.HNO_3 [3 : 1] (d) Dil.HCl : Dil.HNO_3 [3 : 1]

9. Which of the following metals exist in their native state in nature?
   (i) Cu (ii) Au (iii) Zn (iv) Ag
   (a) (i) and (ii) (b) (ii) and (iii) (c) (ii) and (iv) (d) (iii) and (iv)

10. An alloy is
    (a) An element (b) A compound (c) A homogeneous mixture (d) A heterogeneous mixture

11. An electrolytic cell consists of
    (i) Positively charged cathode
    (ii) Negatively charged anode
    (iii) Positively charged anode
    (iv) Negatively charged cathode
    (a) (i) and (ii) (b) (iii) and (iv) (c) (i) and (iii) (d) (ii) and (iv)

12. An element A is soft and can be cut with a knife. This is very reactive to air and cannot be kept open in air. It reacts vigorously with water. Identify the element from the following
    (a) Mg (b) Na (c) P (d) Ca

13. Which among the following alloys contain mercury as one of its constituents?
    (a) Stainless steel (b) Alnico (c) Solder (d) Zinc amalgam

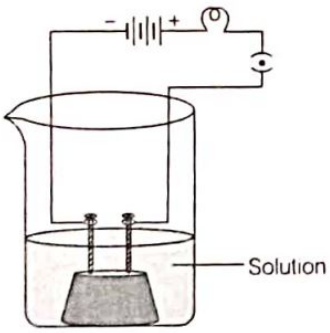
14. Generally, non-metals are not conductors of electricity. Which of the following is a good conductor of electricity?
    (a) Diamond (b) Graphite (c) Sulphur (d) Fullerene

15. Electrical wires have a coating of an insulating material. The material, generally used is
    (a) Sulphur (b) Graphite (c) PVC (d) All can be used

16. Which of the following non-metals is a liquid?
    (a) Carbon (b) Bromine (c) Phosphorus (d) Sulphur

17. The electronic configuration of three element X, Y and Z are
    X - 2,8
    Y - 2, 8, 6
    Z - 2, 8, 1
    Which of the following is correct?
    (a) X is a metal (b) Z is a non-metal (c) Y is a metal (d) X and Yare non-metal and Z is a metal

18. In the given experimental set-up, if the experiment is carried out separately with each of the following solutions the cases in which the bulb will glow is



(a) dilute hydrochloric acid (b) honey (c) glucose solution (d) alcohol

19. Which of the following metals, do not corrode in moist air?

(a) Copper (b) Iron (c) Gold (d) Silver

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