

Chapter-3

Worksheet-2

1. If copper is kept open in air, it slowly loses its shining brown surface and gains a green coating. It is due to the formation of:
 - (a) $CuSO_4$
 - (b) $CuCO_3$
 - (c) $Cu(NO_3)_2$
 - (d) CuO
2. Generally, metals are solid in nature. Which one of the following metals is found in liquid state at room temperature?
 - (a) Na
 - (b) Fe
 - (c) Cr
 - (d) Hg
3. Generally, non-metals are not lustrous. Which of the following non-metal is lustrous?
 - (a) Sulphur
 - (b) Oxygen
 - (c) Nitrogen
 - (d) Iodine
4. Which one of the following four metals would be displaced from the solution of its salts by other three metals?
 - (a) Mg
 - (b) Ag
 - (c) Zn

(d) Cu

5. 2 mL each of concentrated HCl , HNO_3 and a mixture of concentrated HCl and concentrated HNO_3 in the ratio of 3 : 1 were taken in test tubes labelled as A, B and C. A small piece of metal was put in each test tube. No change occurred in test tubes A and B but the metal got dissolved in test tube C respectively.

The metal could be:

- (a) Al
- (b) Au
- (c) Cu
- (d) Pt

6. An alloy is:

- (a) An element
- (b) A compound
- (c) A homogeneous mixture
- (d) A heterogeneous mixture

7. An electrolyte 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)

8. Alloys are homogeneous mixtures of a metal with a metal or non-metal. Which among the following alloys contain non-metal as one of its constituents?

- (a) Brass
- (b) Bronze
- (c) Amalgam
- (d) Steel

9. Which among the following statements is incorrect for magnesium metal?

- (a) It burns in oxygen with a dazzling white flame.
- (b) It reacts with cold water to form magnesium oxide and evolves hydrogen gas.
- (c) It reacts with hot water to form magnesium hydroxide and evolves hydrogen gas.
- (d) It reacts with steam to form magnesium hydroxide and evolves hydrogen gas.

10. Which among the following alloys contain mercury as one of its constituents?

- (a) Stainless steel
- (b) Alnico
- (c) Solder
- (d) Zinc amalgam

Q.11. Why are metals good conductors of electricity?

Q.12. What is aqua regia?

Q.13. Which property of graphite is utilised in making electrodes?

Q.14. Name two metals that do not react with water at all.

Q. 15. What is galvanisation?

Q.16. Why does aluminium not react with water under ordinary conditions?

Q.17. Arrange the following metals in decreasing order of their reactivity:

Fe, Zn, Na, Cu, Ag

Q.18. What is rust?

Q.19. What is corrosion?

Q.20. Which metals are mixed with iron to get stainless steel?