CHAPTER 1

- 1. Which of the following is not a chemical change?
- a) Rusting of iron
- b) Burning of a candle
- c) Melting of ice
- d) Digestion of food

Answer: c

- 2. The chemical equation for the reaction of zinc with dilute sulphuric acid is:
- a) $Zn + H2SO4 \rightarrow ZnSO4 + H2O$
- b) $ZnSO4 + 2H2O \rightarrow Zn(OH)2 + H2SO4$
- c) $Zn + 2HCl \rightarrow ZnCl2 + H2$
- d) $Zn + HNO3 \rightarrow Zn(NO3)2 + H2O$

Answer: a

- 3. Which of the following is not a physical change?
- a) Boiling of water
- b) Dissolving salt in water
- c) Burning of wood
- d) Melting of wax

Answer: c

- 4. The chemical formula of baking soda is:
- a) NaOH
- b) Na2CO3
- c) NaHCO3
- d) NaCl

Answer: c

- 5. The balanced chemical equation for the reaction of calcium carbonate with hydrochloric acid is:
- a) CaCO3 + HCl \rightarrow CaCl2 + H2O + CO2
- b) CaCO3 + 2HCl \rightarrow CaCl2 + H2O + CO2
- c) CaCO3 + H2SO4 \rightarrow CaSO4 + H2O + CO2
- d) CaCO3 + HNO3 \rightarrow Ca(NO3)2 + H2O + CO2

Answer: b

- 6. The chemical formula of washing soda is:
- a) NaOH
- b) Na2CO3
- c) NaHCO3
- d) NaCl

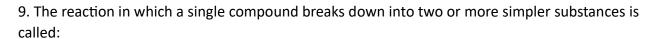
Answer: b

- 7. Which of the following is a double displacement reaction?
- a) $2Na + 2H2O \rightarrow 2NaOH + H2$
- b) Fe + CuSO4 → FeSO4 + Cu
- c) CaCO3 \rightarrow CaO + CO2
- d) AgNO3 + NaCl → AgCl + NaNO3

Answer: d

- 8. The process of converting a liquid into vapours at any temperature below its boiling point is called:
- a) Melting
- b) Boiling
- c) Evaporation

d) Sublimation
Answer: c



- a) Combustion reaction
- b) Displacement reaction
- c) Decomposition reaction
- d) Double displacement reaction

Answer: c

10. The balanced chemical equation for the reaction of potassium with water is:

a)
$$K + H2O \rightarrow K2O + H2$$

b)
$$K + H2O \rightarrow KOH + H2$$

c) K2O + H2O
$$\rightarrow$$
 2KOH

d) K + H2O
$$\rightarrow$$
 KHO + H2

Answer: b

11. Which of the following is a combustion reaction?

a)
$$2H2 + O2 \rightarrow 2H2O$$

b) Fe + CuSO4
$$\rightarrow$$
 FeSO4 + Cu

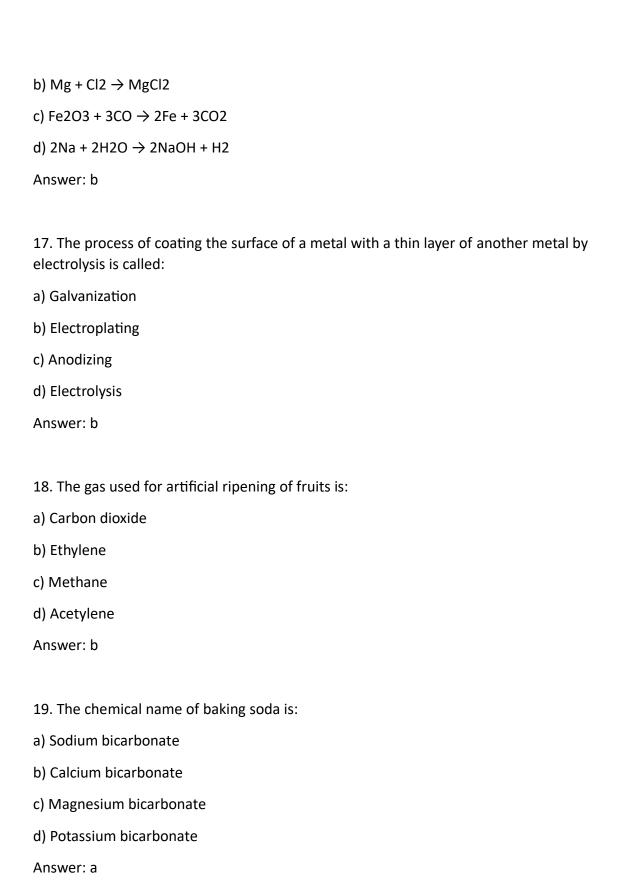
d) CaCO3
$$\rightarrow$$
 CaO + CO2

Answer: c

12. The chemical formula of plaster of Paris is:

a) CaSO4.2H2O

b) CaSO4.H2O
c) CaSO4
d) CaSO3
Answer: b
13. Which of the following is not a chemical reaction?
a) Burning of magnesium ribbon in air
b) Digestion of food
c) Rusting of iron
d) Melting of ice
Answer: d
14. The chemical formula of bleaching powder is:
a) Ca(OH)2
b) CaOCI2
c) CaCO3
d) CaSO4
Answer: b
15. The balanced chemical equation for the reaction of lead nitrate with potassium iodide is:
a) Pb(NO3)2 + KI \rightarrow PbI2 + KNO3
b) Pb(NO3)2 + KI \rightarrow Pb(NO3)2 + KI
c) Pb(NO3)2 + KI \rightarrow PbSO4 + KNO3
d) Pb(NO3)2 + KI \rightarrow PbSO4 + KI
Answer: a
16. Which of the following is not a redox reaction?
a) Zn + CuSO4 → ZnSO4 + Cu



20. The chemical name of vinegar is:
a) Acetic acid
b) Citric acid
c) Tartaric acid
d) Lactic acid
Answer: a
21. The gas responsible for the greenhouse effect is:
a) Nitrogen
b) Oxygen
c) Carbon dioxide
d) Methane
Answer: c
22. The chemical formula of common salt is:
a) NaCl
b) KCI
c) MgCl2
d) CaCl2
Answer: a
23. The chemical formula of washing soda is:
a) Na2CO3.10H2O
b) NaHCO3
c) NaOH
d) NaCl
Answer: a

24. The chemical formula of quicklime is:
a) CaO
b) Ca(OH)2
c) CaCO3
d) CaSO4
Answer: a
25. The chemical formula of plaster of Paris is:
a) CaSO4.2H2O
b) CaSO4.H2O
c) CaSO4
d) CaSO3
Answer: b
26. The process of converting vegetable oils into fats by hydrogenation is called:
a) Oxidation
b) Saponification
c) Esterification
d) Hydrogenation
Answer: d
27. The process of conversion of sugar into alcohol is called:
a) Fermentation
b) Distillation
c) Crystallization
d) Vaporization
Answer: a

28. The process of conversion of alcohol into vinegar is called:
a) Fermentation
b) Distillation
c) Crystallization
d) Acetification
Answer: d
29. The process of removing hardness of water by adding washing soda is called:
a) Sedimentation
b) Filtration
c) Chlorination
d) Softening
Answer: d
30. The process of preparing alcohol from molasses is called:
a) Fermentation
b) Distillation
c) Crystallization
d) Hydrolysis
Answer: a