SCIENCE QUIZ MAY 2022

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- The removal of oxygen from a substance is called:
 (A) oxidation (B) corrosion (C) reduction (D) rancidity
- 2. In the context of redox reaction, the removal of hydrogen from a substance is known as: (A) oxidation (B) dehydration (C) reduction (D) dehydrogenation
- 3. The chemical reaction involved in the corrosion of iron metal is that of:
 (A) oxidation as well as displacement
 (B) reduction as well as combination
 (C) oxidation as well as communication
 (D) reduction as well as the displacement
- 4. The term used to indicate the development of unpleasant smell and taste in fat and oil containing foods due to aerial oxidation is:
 (A) acidity (B) radioactivity (C) rabidity (D) rancidity
- 5. In order of prevent the spoilage of potato chips, they are packed in plastic bags in an atmosphere of:
 (A) chlorine (B) hydrogen (C) nitrogen (D) oxygen
- 6. A white precipitate can be obtained by adding dilute sulphuric acid to:(A) copper sulphate solution(B) sodium chloride solution(C) barium chloride solution(D) sodium sulphate solution
- 7. A white precipitate will be formed if we add common salt solution to:
 (A) barium nitrate solution
 (B) potassium nitrate solution
 (D) magnesium nitrate solution
- 8. Consider the following equation of the chemical reaction of a metal M: $4M + 3O_2 \rightarrow 2M_2O_3$ This equation represents:
 - (A) Combination reaction as well as reduction reaction
 - (B) decomposition reaction as well as oxidation reaction
 - (C) oxidation reaction as well as displacement reaction
 - (D) combination reaction as well as oxidation reaction
- 9. The process of respiration is:
 - (A) an oxidation reaction which is endothermic
 - (B) a reduction reaction which is exothermic
 - (C) a combination reaction which is endothermic
 - (D) an oxidation reaction which is exothermic

- 10. Which of the following can be decomposed by the action of light?(A) sodium chloride (B) potassium chloride (C) silver chloride (D) cuprous chloride
- 11. Consider the reaction: potassium bromide (aq) + Silver Nitrate (aq) \rightarrow potassium nitrate + silver bromide. This is an example of:
 - (A) decomposition reaction (B) combination reaction
 - (C) double displacement reaction (D) displacement reaction
- 12. You are given the following chemical equation: Mg (s) + CuO (s) \rightarrow MgO (s) + Cu (s). This equation represents:
 - (A) decomposition reaction as well as displacement reaction
 - (B) combination reaction as well as double displacement reaction
 - (C) redox reaction as well as displacement reaction
 - (D) double displacement reaction as well as Redox reaction

13. One of the following does not happen during a chemical reaction. This is:

- (A) breaking of old chemical bonds and formation of new chemical bond
- (B) formation of new substances with entirely different properties
- (C) atoms of one element change into those of another element to form new products
- (D) rearrangement of atoms takes place to form new products

14. Which of the following does not involve a chemical reaction?

- (A) digestion of food in our body (B) process of respiration
- (C) burning of candle wax when heated (D) melting of candle wax on heating
- 15. You are given the solution of lead nitrate. In order to obtain a yellow precipitate you should mix with it a solution of:
 - (A) potassium chloride (B) potassium nitride
 - (C) potassium sulphide (D) potassium iodide
- 16. An acid which can decolorize purple colour potassium permanganate solution is: (A) sulfuric acid (B) citric acid (C) carbonic acid (D) hydrochloric acid
- 17. The chemical reaction between two substances is characterized by a change in colour from orange to green. These two substances are most likely to be:
 - (A) potassium dichromate solution and Sulphur Dioxide
 - (B) potassium permanganate solution and Sulphur Dioxide
 - (C) potassium permanganate solution and lemon juice

(D) potassium dichromate solution and carbon dioxide

- 18. The chemical reaction between quicklime and water is characterized by:
 - (A) evolution of hydrogen gas (B) formation of slaked lime precipitate
 - (C) change in temperature of mixture (D) change in colour of the product.

- 19. Out of the following is an endothermic reaction. This is:
 - (A) combination of carbon and oxygen to form carbon monoxide
 - (B) combination of Nitrogen and oxygen to form nitrogen monoxide
 - (C) combination of glucose and oxygen to form carbon dioxide and water
 - (D) combination of zinc and hydrochloric acid to form zinc chloride and hydrogen
- 20. Which of the following is not an endothermic reaction? (A) $CaCO_3 \rightarrow CaO + CO_2$ (B) $2H_2O \rightarrow 2H_2 + O_2$ (C) $6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2$ (D) $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$
- 21. One of the following is an exothermic reaction. This is:
 (A) electrolysis of water
 (B) conversion of limestone in to quicklime
 (C) process of respiration
 (D) process of photosynthesis
- 22. The chemical equation balance to satisfy one of the following the laws in chemical reactions. This law is known as:
 - (A) law of conservation of momentum

(C) law of conservation of motion

(D) law of conservation of magnetism

(B) law of conservation of mass

ANSWERS

51° (C) 55° (B)

1. (C) 2. (A) 3. (C) 4. (D) 5. (C) 6. (C) 7. (D) 8. (D) 9. (D) 10. (C) 11. (C) 12. (C) 13. (C) 14. (D) 15. (D) 16. (B) 17. (A) 18. (C) 19. (B) 20. (D)