

CHEMISTRY PAPER – II

Q1. If ethanol reacts with oxygen it produces

- (a) Acetic Acid
- (b) Hydrochloric Acid
- (c) Sulphuric Acid
- (d) Sulphur dioxide

Q2. Fill the question mark in following reaction



- (a) $2 \text{C}_2\text{H}_6$
- (b) CH_4
- (c) C_2H_4
- (d) None of these

Q3. A burner consumes one gram of LPG in 11 sec. What is the power of consumption of burner in KW if C_v of LPG is 55 kJ/g.

- (a) 5 kW
- (b) 10 kW
- (c) 5.5 kW
- (d) None of these

Q4. The ideal gas equation is

- (a) $P_1T_1 / V_1 = P_2V_2 / T_2$
- (b) $P_1V_1 / T_1 = P_2V_2 / T_2$
- (c) $P_1V_1T_1 = P_2V_2T_2$
- (d) $P_1V_1 / T_2 = P_2V_2 / T_1$

Q5. Dalton's Law of partial pressure is obeyed in which one of the following pair of gases

- (a) Oxygen & Nitrogen
- (b) Nitrogen & Hydrogen
- (c) Hydrogen & Argon
- (d) Hydrogen & oxygen

Q6. The molecular formula of a compound in $(\text{CO})_x$ and its vapour density is 70. Then the possible value of x is

- (a) 2
- (b) 10
- (c) 5
- (d) 9

Q7. Number of groups present in the long form of the periodic table are

- (a) 16
- (b) 8
- (c) 2
- (d) 18

Q8. Which of the following is a neutral oxide

- (a) NO
- (b) NO_2
- (c) N_2O_5
- (d) CO_2

- Q9. Molecular weight of a substance is equivalent to**
- (a) Sum of atomic wt. of each element present in the given substance
 - (b) Sum of At.wt of each element with their respective number present in each compound
 - (c) Sum of equivalent wt. of each element present in the given substance
 - (d) None of these
- Q10. Covalent linkages is formed by**
- (a) Transfer of electrons
 - (b) Mutual sharing of electrons
 - (c) Transfer as well as mutual sharing of electrons
 - (d) None of these
- Q11. If an acid having construction as 0.01 N is diluted to 1000 times then the PH of that acid is ?**
- (a) 5
 - (b) 2
 - (c) 3
 - (d) 10
- Q12. Oxygen has two isotopes O^{16} & O^{18} . If the percentage of O^{16} is 90 then the atomic weight of oxygen will be**
- (a) 16
 - (b) 16.2
 - (c) 16.4
 - (d) None of these
- Q13. Atom that can neither gain nor lose electrons is said to be**
- (a) an Inert
 - (b) Atomsperic
 - (c) Metallic
 - (d) Non – metallic
- Q14. When a burning splinter is brought near the gas jar containing hydrogen gas a popping sound is observed. It is due to**
- (a) exothermic
 - (b) endothermic
 - (c) exothermic & endothermic
 - (d) None of these
- Q15. In which of the following preparation Hydrogen is not used?**
- (a) preparation of Ammonia (NH_3)
 - (b) Hydrogenation of oil
 - (c) Synthesis of water gas
 - (d) all of these
- Q16. Deacon's process is used for the manufacturing of**
- (a) Bleaching powder
 - (b) Sulphuric acid
 - (c) chlorine
 - (d) Hydrochloric acid (HCL)

Q17. Which one of the following method is considered to be a best method for the removal of temporary hardness of water

- (a) Caylor's process
- (b) Clark's process
- (c) Vesence process
- (d) Permutti's process

Q18. When chlorine gas is passed through NaOH, it forms

- (a) Sodium chloride
- (b) Sodium chlorate
- (c) Sodium hypochlorite
- (d) All of these

Q19. Skin becomes yellow in Conc. H_2SO_4 as

- (a) HNO_3 acts as an oxidizing agent
- (b) HNO_3 acts as a dehydrating agent
- (c) Nitro – cellulose is formed
- (d) The proteins are converted into xantho proteins

Q20. Which of the following is used as a moderator in nuclear reactor

- (a) Water
- (b) Heavy water
- (c) Active Hydrogen
- (d) Heavy Hydrogen

Q21. Which one of the following is known as “King of Chemicals”

- (a) Hydrochloric acid
- (b) Sulphuric acid
- (c) Nitric acid
- (d) Phosphoric acid

Q22. The common gas used in our refrigerator

- (a) marsh gas
- (b) producer gas
- (c) freon
- (d) water gas

Q23. Alum is added with muddy water to

- (a) Kill bacteria
- (b) Make filtration of milk
- (c) Make the sedimentation process quick
- (d) None of these

Q24. Alloy is a homogenous mixture of

- (a) two or more metals
- (b) a metal & a non metal
- (c) metals as well as non metals
- (d) all of these

- Q25. To protect the metal from corrosion it is some times coated with a thin layer of Al_2O_3 (Aluminium oxide) and the process is called**
- (a) Electroplating
 - (b) Electroforming
 - (c) Aluminizing
 - (d) None of these
- Q26. The I.U.P.A.C. name of the compound $\text{CH}_2\text{CH}_2\text{CH}(\text{CH}_3)_2$ is**
- (a) N – Propene
 - (b) 3 methyl butane
 - (c) 2 methyl butene
 - (d) None of these
- Q27. Fuel in Automobiles is a mixture of**
- (a) saturated hydrocarbons
 - (b) unsaturated hydrocarbons
 - (c) crude oil
 - (d) saturated & unsaturated hydrocarbons
- Q28. In the soda fire extinguishes due to**
- (a) formation of CO_2
 - (b) presence of sodium bicarbonate
 - (c) formation of water as a product
 - (d) None of these
- Q29. The glasses which is used for making lenses and prisms for optical instrument**
- (a) Hard glass
 - (b) Pyrex glass
 - (c) Croked glass
 - (d) Tint glass
- Q30. Which of the following is of a thermoplastic?**
- (a) Teflon
 - (b) Orlon
 - (c) Bakelite
 - (d) Polythene

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