

2021-2022

CHEMISTRY

Annual Examination

Section-A

Multiple Choice Questions (MCQs)

- Q.1 Choose the correct answer for each from the given options:
- The formula of chile salt peter is:
    - $\text{NaNO}_3$
    - $\text{NH}_4\text{NO}_3$
    - $\text{KNO}_3$
    - $\text{AgNO}_3$
  - Which one is secondary Alkylthamide:
    - $\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{Cl}$
    - $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3 - \text{C} - \text{Cl} \\ | \\ \text{H} \end{array}$
    - $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3 - \text{C} - \text{Cl} \\ | \\ \text{CH}_3 \end{array}$
    - None of these
  - The reaction in which single is converted in to double or triple bond is known as \_\_\_\_\_.
    - Addition reaction
    - Substitution reaction
    - Elimination reaction
    - Re-arrangement reaction
  - The process of loss of oxygen from a substance or addition of Hydrogen is called \_\_\_\_\_.
    - Oxidation
    - Reduction
    - Hydrogenation
    - None of these
  - Greater is the electro negativity of an element, stronger is the \_\_\_\_\_ character of its acid.
    - Acid
    - Basic
    - Both (a) and (b)
    - None of these
  - Urea was prepared in \_\_\_\_\_.
    - 1828
    - 1928
    - 1840
    - None of these
  - Aldehyde and Ketones we commonly referred to as \_\_\_\_\_.
    - Carbonyl compound
    - Penols
    - Ethers
    - None of these
  - In the electrolysis of  $\text{NaCl}$  \_\_\_\_\_ occurs at cathodes:
    - Oxidation
    - Reduction
    - Redox reaction
    - None of these
  - Which of the following element silicates are used in the manufacture of \_\_\_\_\_.
    - Ca
    - Cu
    - Cr
    - None of these
  - The mixture of sodium and calcium silicates are used in the manufacture of \_\_\_\_\_.
    - Ordinary glass
    - Pyrex glass
    - Coloured glass
    - All of these
  - Which one of following is mono saccharine?
    - Maltase's
    - Sucrose
    - Gelatos
    - Cellulose
  - Presence of double bond in a compound is the sign of \_\_\_\_\_.
    - Saturation
    - un-saturation
    - substitution
    - None of these
  - \_\_\_\_\_ forms polymeric hydrides.
    - Na and Li
    - B and Be
    - Be and Mg
    - Mg and Ca
  - Copper sulphate penta hydrated is also called:
    - Green Viriol
    - Black vitriol
    - Blue vitriol
    - All of these
  - Alkali metal are the element of \_\_\_\_\_.
    - Group IIIA
    - Group IIA
    - Group IA
    - Group VIIIA
  - In Latin, the word petroleum means \_\_\_\_\_.
    - Rock oil
    - Cracked oil
    - Rook oil
    - All of these
  - IUPAC name of  $\text{CH}_3 - \text{C} - \text{CH}_3$  is:
    - Di-methyl ketone
    - Acetone
    - 2-propanone
    - All of these
  - Third period of modern periodic table contain:
    - 19 elements
    - 2 elements
    - 32 elements
    - 8 elements
  - Natural gas contain methane gas ( $\text{CH}_4$ ) about \_\_\_\_\_.
    - 98.5%
    - 94.60%
    - 32 elements
    - All of these
  - Which one is oxonium ion:
    - $\begin{array}{c} \text{R} - \text{O}^+ - \text{R} \\ | \\ \text{H} \end{array}$
    - $\text{H}^3\text{C}^+$
    - $\text{O} - \text{H}$
    - None of these
  - De hydro halogenations is the reaction of:
    - Addition of  $\text{H}_2\text{O}$
    - Elimination of  $\text{HX}$
    - Addition of  $\text{HX}$
    - Elimination
  - Hydrides which have salt like character are known as \_\_\_\_\_.
    - Metalic hydride
    - Complex hydride
    - Ionic hydride
    - Polymeric hydride
  - Elements of sub group IIIA to VIIIA (Except He) are known as \_\_\_\_\_.
    - s-block
    - p-block
    - d-block
    - f-block
  - Ketones are prepared by the oxidation of
    - Primary Alcohol
    - Secondary Alcohol
    - Tertiary alcohol
    - All of these
  - Benzene was first isolated by Mickle Faraday in \_\_\_\_\_.
    - 1845
    - 1825
    - 1945
    - 1925
  - Tertiary carbon bonded directly to \_\_\_\_\_.
    - 2 hydrogens
    - 3-carbons
    - 2 carbons
    - 4 carbons
  - Hydrides of group IIIA & IVA are \_\_\_\_\_.
    - Neutral
    - Acidic
    - Basic
    - None of these
  - Alkyl-halides undergoes \_\_\_\_\_.
    - Electrophilic substitution reaction
    - Electrophilic and addition reaction
    - Nucleophilic substitution reaction
    - Nucleophilic addition reaction
  - \_\_\_\_\_ is the largest period in the periodic table.
    - 4<sup>th</sup> period
    - 5<sup>th</sup> period
    - 6<sup>th</sup> period
    - 7<sup>th</sup> period
  - Ruby is the oxide of \_\_\_\_\_.
    - Iron
    - Copper
    - Prophylene
    - None of these
  - The systematic (IUPAC name of terbutyl Brremide is
    - Tri Bromo Butane
    - 1-Bromo Butane
    - 1-bromo-1, 1 dimethyl ethane
    - 2-Bromo-2-methyl propane
  - Polyethene is the polymer of \_\_\_\_\_.
    - Ethylene
    - Acetylene
    - Propylene
    - None of these
  - The vertical columns of element in the modern periodic table are called:
    - Periods
    - Blocks
    - Groups
    - Families
  - The color of chlorine ( $\text{Cl}_2$ ) gas is:
    - Red
    - Blue
    - Yellow
    - Greenish yellow
  - The valence shell of hydrogen is half filled like that of:
    - Alkali metals
    - Carbon family
    - Halogen family
    - Noble gases
  - Alkyl halide are classified into:
    - 2 types
    - 3 types
    - 4 types
    - 5 types
  - Formula of Iodoform is:
    - $\text{CH}_3\text{I}$
    - $\text{CH}_2\text{I}_2$
    - $\text{CHI}_3$
    - $\text{Cl}_4$
  - Mustard gas is prepared from:
    - Ethene
    - Ethyne
    - Ethane
    - Benzene
  - $\text{C}_{11}\text{H}_{2n}$  is the general formula of:
    - Alkane
    - Alkyne
    - Alkene
    - All of these
  - Which of the following metal is called self protected out by:
    - Fe
    - Cu
    - Al
    - Ag
  - The industrial preparation of Nitric acid is carried out by:
    - Contact process
    - Cartner - Kelliner process
    - Down's Process
    - Ostward's method
  - The bond energy of Hydrogen molecule is:
    - 102 K cal/mol
    - 104 K.cal/mol
    - 105 K.cal/mol
    - 106 K.cal/mol
  - The first known organic compound synthesis in the laboratory is:
    - Benzene
    - Acetic acid
    - Urea
    - Ethane