

- 1) The order of reactivity of methyl halide in the formation of Grignard reagent is
 - a) $\text{CH}_3\text{Cl} > \text{CH}_3\text{Br} > \text{CH}_3\text{I}$
 - b) $\text{CH}_3\text{I} > \text{CH}_3\text{Br} > \text{CH}_3\text{Cl}$
 - c) $\text{CH}_3\text{Br} > \text{CH}_3\text{I} > \text{CH}_3\text{Cl}$
 - d) $\text{CH}_3\text{Br} > \text{CH}_3\text{Cl} > \text{CH}_3\text{I}$
- 2) Elimination of bromine from 2-bromobutane results in the formation of-
 - a) Predominantly 2-butyne
 - b) Predominantly 1-butene
 - c) Predominantly 2-butene
 - d) Equimolar mixture of 1 and 2-butene
- 3) 1-chlorobutane on reaction with alcoholic caustic potash gives-
 - a) 1-butene
 - b) 1-butanol
 - c) 2-butene
 - d) 2-butanol
- 4) Which of the following haloalkanes is most reactive?
 - a) 1-chloropropane
 - b) 1-bromopropane
 - c) 2-chloropropane
 - d) 2-bromopropane
- 5) Ethyl chloride on heating with AgCN forms a compound X. the functional isomer of X-
 - a) $\text{C}_2\text{H}_5\text{NC}$
 - b) $\text{C}_2\text{H}_5\text{NH}_3$
 - c) $\text{C}_2\text{H}_5\text{CN}$
 - d) None of these
- 6) Which of the following applies in the reaction,

$\text{CH}_3\text{CHBrCH}_2\text{CH}_3$ in presence of Alc. KOH

** $\text{CH}_3\text{CH}=\text{CHCH}_3$ (major product)

** $\text{CH}_2=\text{CHCH}_2\text{CH}_3$ (minor product)

 - a) Markownikoff's rule
 - b) Saytzeff's rule
 - c) Kharasch effect
 - d) Hofmann's rule
- 7) Which one of the following compounds when heated with KOH and a primary amine gives carbylamines test?
 - a) CHCl_3
 - b) CH_3Cl
 - c) CH_3OH
 - d) CH_3CN
- 8) Alcoholic solution of KOH is used for –
 - a) Dehydration
 - b) Dehydrogenation
 - c) Dehydrohalogenation
 - d) Dehalogenation
- 9) Feron used as refrigerant is
 - a) $\text{CF}_2=\text{CF}_2$
 - b) CH_2F_2
 - c) CCl_2F_2
 - d) CF_4
- 10) Which of the following gas is used in warfare?
 - a) N_2O
 - b) CCl_3NO_2
 - c) CO_2
 - d) O_2
- 11) Ethyl alcohol is used as a preservative for chloroform because it-
 - a) Prevents aerial oxidation
 - b) Prevents decomposition
 - c) Decomposes phosgene to CO and Cl_2
 - d) Removes phosgene by converting it to ethyl carbonate
- 12) Chloroform, when kept open, is oxidised to-
 - a) CO_2
 - b) COCl_2
 - c) CO_2, Cl_2
 - d) None of these
- 13) Which of the following is most polar?
 - a) CH_3Cl
 - b) CH_3F
 - c) CH_3Br
 - d) CH_3I
- 14) In group of isomeric alkyl halides, the order of boiling point is-
 - a) Primary < secondary < tertiary
 - b) Primary > secondary < tertiary
 - c) Primary < secondary > tertiary
 - d) Primary > secondary > tertiary
- 15) When ethyl alcohol reacts with Cl_2 in presence of NaOH, the product will be?
 - a) CH_3Cl
 - b) $\text{C}_2\text{H}_5\text{Cl}$
 - c) CCl_3CHO
 - d) CHCl_3

