

ST. LAWRENCE HIGH SCHOOL A JESUIT CHRISTIAN MINORITY INSTITUTION

WORKSHEET-11(CLASS-12)

TOPIC- ALKYL AND ARYL HALIDE



SUBTOPIC-CHEMICAL REACTIONS OF ALKYL AND ARYL HALIDE

SUBJECT – CHEMISTRY DURATION – 30 mins

F.M. - 15 DATE -14.05.20

1.1 Which of the following is most reactive towards SN1 reaction?

(a) $C_6H_5C(CH_3)C_6H_5Br$ (b) $C_6H_5CH_2Br$ (c) $C_6H_5CH(C_6H_5)Br$ (d) $C_6H_5CH(CH_3)Br$

1.2 The correct order of increasing the reactivity of C—X bond towards nucleophile in following compounds-



(a) |V < |I| < | < |I| (c) | < |I| < |V < |I| (b) |I| < |I| < |V| (d) |I| < |I| < | < |V|

1.3 Which of the following compound will undergo racemisation when reacts with aq. KOH?



(ii) CH3CH2CH2Cl



(a) (i) and (ii) (b) (ii) and (iv) (c) (iii) and (iv) (d) (iv)

1.4 $CH_3CH_2CH_2Br + NaCN \rightarrow CH_3CH_2CH_2CN + NaBr, will be fastest in (a) ethanol (b) methanol (c) N, N dimethyl formamide (d) Water$

1.5 The increasing order of reactivity towards S_N1 mechanism is-

II CH₃CH₂CH₂Cl

(a) III < II < I (b) II < I < III (c) I < III < II (d) II < III < I

1.6 Arrange the following compounds in the increasing order of their densities.



1.12 Chloroform on aerial oxidation in presence of sunlight forms-

a) Phosgene and HCl b) Phosgene and HClO₃ c) Dimethyl carbonate d) Methyl cyanide 1.13 Which compound is formed on chemical reaction between 1% Ethanol and Carbonyl chloride?

a) Dimethyl carbonate b) Diethyl carbonate c) Carbon dioxide d) Ethyl isocyanide

1.14 m-Xylene reacts with Br₂ in presence of FeBr₃, what are products formed





1.15 Which of the following gives positive iodoform reaction?

a) Methanal b) Methanol c) Diethyl ether d) Acetone

PREPARED BY: MR. ARNAB PAUL CHOWDHURY