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INDIAN SCHOOL MUSCAT FIRST PERIODIC ASSESSMENT

CHEMISTRY

CLASS: 12 Sub.Code: 043 TimeAllotted:50mts.
14 .04.2019 Max .Marks: 20

GENERAL INSTRUCTIONS:

- a. All questions are compulsory.
- b. Mark for each question is indicated against it
- 1. Which one of the following is more reactive towards nucleophilic substitution by S_N1 1 reaction? 1-Bromopropene or 3-Bromopropene 2. Draw the structure of 4-sec-Butyl-1-chloro-2-methylbenzene 1 Give a chemical test to distinguish between ethyl chloride and vinyl chloride. 1 3. Write the IUPAC name of the following 2 4. a) $(CH_3)_3CCH=C(Br)C_6H_4Cl-p$ b) tert-Pentyl chloride. 5. Convert 2 a) Aniline to Iodobenzene b) Ethene to Butane Give equations for the following 2 6. a) Methyl chloride is treated with KNO₂ b) Ethyl chloride is treated with magnesium in dry ether followed by hydrolysis. Illustrate the following with an example 2 7. a) Fittig reaction b) Friedel-Crafts alkylation of Chlorobenzene

8. An optically active compound having molecular formula C₄H₉Br reacts with aqueous KOH to give a racemic mixture of products. Write the mechanism involved for the reaction.
9. Define the following

a) Ambident nucleophile
b) Zaitsev rule
c) Enantiomers

10. Account for the following

a) Halogens are deactivating but ortho, para directive.
b) 1-Chloropentane has more boiling point than 2-Chloro -2-methylbutane
c) Thionyl chloride is the preferred reagent for converting ethanol to chloroethane