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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. Give a chemical test to distinguish between benzyl chloride and chlorobenzene 1
2. Draw the structure of 1-Bromo-4-isopropylbenzene 1
3. Which one of the following is more reactive towards nucleophilic substitution by S_N1 reaction? 1
1-Bromopropene or 3-Bromopropene
4. Write the IUPAC name of the following 2
 - a) $m\text{-ClCH}_2\text{C}_6\text{H}_4\text{CH}_2\text{CH}_2\text{CH}_3$
 - b) Isopentyl iodide
5. Give equations for the following; 2
 - a) Methyl chloride is treated with KNO_2
 - b) Ethyl chloride is treated with magnesium in dry ether followed by hydrolysis.
6. Illustrate the following reactions with suitable example : 2
 - a) Finkelstein reaction.
 - b) Sandmeyer reaction.
7. Convert 2
 - a) Benzene to biphenyl
 - b) Chloroethane to Propanoic acid

8. Define the following 3
- a) Freons
 - b) Zaitsev rule
 - c) Retention
9. Account for the following 3
- a) Dipole moment of chlorobenzene is lower than that of cyclohexylchloride
 - b) 1-Chloropentane has more boiling point than 2-Chloro-2-methylbutane.
 - c) Thionyl chloride is the preferred reagent for converting ethanol to chloroethane.
10. An optically active compound having molecular formula C_4H_9Br reacts with aqueous KOH 3
to give a racemic mixture of products. Write the mechanism involved for the reaction.