Roll Number		

B

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. Draw the structure of 2-Bromo-4-isobutyloct-2-ene. 1

2. Give a chemical test to distinguish between chloroethaneand chlorobenzene. 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) $CH_3CH(CH_3)CH=C(Br)C_6H_4Cl$-p

   b) Neopentyl chloride.

5. Convert 2

   a) Aniline to Bromobenzene

   b) Ethanol to propanenitrile

6. Explain the following reactions with suitable example : 2

   a) Swarts reaction.

   b) Friedel-Crafts acylation of chlorobenzene

7. 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.

8. Account for the following 3

a) 1-Chloropentane has more boiling point than 2-Chloro-2-methylbutane

b) Chloroform is stored in dark brown bottle.

c) Halogens are deactivating but ortho, para directive.

9. An optically active compound having molecular formula C_4H_9Br reacts with aqueous KOH to give a racemic mixture of products. Write the mechanism involved for the reaction. 3

10. Define the following. 3

a) Zaitsev rule

b) Freons

c) Enantiomers