

Doon Public School

A Senior Secondary School
Sector- 21, Panchkula. Ph: 0172- 2590514

Assignment – 2

Subject: CHEMISTRY

Class: XII

Date: 9-08-2018

INSTRUCTIONS:

- Do the given assignment in your note book.
 1. Name the following halides according to IUPAC system-
 - a) $m\text{-cClCH}_2\text{C}_6\text{H}_4\text{CH}_2\text{C}(\text{CH}_3)_3$
 - b) $\text{CH}_3\text{CH}=\text{C}(\text{Cl})\text{CH}_2\text{CH}(\text{CH}_3)_2$
 - c) $\text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}(\text{C}_2\text{H}_5)\text{Cl}$
 - d) $p\text{-NO}_2(\text{Cl})\text{C}_6\text{H}_4$
 2. Give the uses of Freon 12, DDT, Carbon tetrachloride and iodoform.
 3. Arrange the compounds in order of reactivity towards $\text{S}_{\text{N}}2$ displacement:
2-Bromo-2-methylbutane, 1-Bromopentane, 2-Bromopentane
 4. Write the isomers of the compound having formula $\text{C}_4\text{H}_9\text{Br}$.
 5. Why aryl halides are extremely less reactive towards nucleophilic substitution reaction?
 6. Why does NO_2 group show its effect only at ortho and para position and not at meta position.
 7. Give the following reactions-
Friedel crafts acylation,
Nitration of phenol,
Wurtz reaction,
Sandmeyer's reaction.

