



INDIAN SCHOOL MUSCAT SECOND PERIODIC TEST

CHEMISTRY

CLASS: XI

Sub. Code: 043

Time Allotted: 50 mts

10.01.2019

Max. Marks: 20

GENERAL INSTRUCTIONS:

- All questions are compulsory.
- Mark of each question is indicated against it.

1. Arrange the following compounds in the increasing order of acidic character: 1
Propene, propane and propyne.
2. Write the IUPAC name of the products obtained by the ozonolysis of 2-Ethyl-1-butene. 1
3. Name the type of isomerism exhibited by 2-Methylpentane and 2,3-Dimethylbutane. 1
4. a) Explain why n-pentane has higher boiling point than neo-pentane? 2
b) What happens when phenol is treated with Zinc dust
5. a) Draw the geometrical isomer of 3,4-dimethylhex-3-ene. 2
b) Write any two necessary conditions for a compound to show aromaticity.
6. a) Why has trans-isomer higher melting point than cis-isomer? 2
b) Write the IUPAC name of $(\text{CH}_3)_2\text{C}(\text{C}_2\text{H}_5)_2$.
7. Draw the eclipsed and staggered form of butane using Saw Horse projection (between C_2 and C_3) and compare their stabilities giving reasons. 2
8. Write the mechanism for the Kolbe's electrolysis. 3
9. a) Complete the following reactions: 3
 - i) $\text{CH}_3\text{-CH=CH-CH}_3 \xrightarrow{\text{KMnO}_4/\text{H}^+}$
 - ii) $\text{C}_6\text{H}_6 + \text{Cl}_2 \xrightarrow[\text{Dark, cold}]{\text{Anhy AlCl}_3}$
- b) State Markovnikov rule.
10. a) Explain the following reactions with suitable examples: 3
 - i) Wurtz reaction
 - ii) Friedel- Crafts alkylation
- b) Give one chemical test to distinguish between ethene and ethyne.

End of the Question Paper