



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. Give one chemical test to distinguish between ethene and ethane. 1
2. Which type of isomerism is exhibited by But-1-yne and But-2-yne? 1
3. Write the IUPAC name of the products obtained by the ozonolysis of 2-Methylbut-2-ene. 1
4. a) Draw the geometrical isomer of 1,2-Dichlorobut-2-ene. 2
b) Why is benzene extra ordinarily stable though it contains three double bonds?
5. a) Why is Wurtz reaction not preferred for the preparation of alkanes containing odd number of carbon atoms? 2
b) Arrange the following compounds in the decreasing order of acidic character:
Propyne , But-2-yne, Ethyne
6. Draw the Newman's projections of ethane and compare the stabilities of the two forms giving reasons. 2
7. Explain the following reactions with suitable examples: 2
a) Friedel- Crafts acylation
b) Kolbe's electrolysis
8. Explain the mechanism for the chlorination of methane. 3
9. a) Effect the following conversions: 3
i) Ethane to butane
ii) Benzene to m-nitrochlorobenzene
b) Out of Benzene, m-nitrobenzene and toluene, which will undergo nitration most easily and why?
10. a) What happens when 3
i) Ethyne is passed over red hot iron tube.
ii) 2- Methylpropene is treated with bromine water.
b) Why is peroxide effect not observed in the addition of HCl?

End of the Question Paper