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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. Which type of isomerism is exhibited by Hex-1-ene and Hex-3-ene? 1
2. Give one chemical test to distinguish between But-1-yne and But-2-yne. 1
3. Write the IUPAC name of the products obtained by the ozonolysis of Pent-2-ene. 1
4. a) Why does cis-2-Butene have a higher boiling point than trans-2-Butene? 2
b) Arrange the three isomers of pentane in increasing order of boiling point.
5. What happens when? 2
a) Propane is treated with chlorine in diffused sunlight.
b) Ethene is treated with cold dilute KMnO_4 solution.
6. a) Draw *geometrical* isomers of Hex-2-ene. 2
b) Is the following compound aromatic? Give reason.
7. Explain the following reactions with suitable examples: 2
a) Decarboxylation
b) Nitration of benzene
8. a) Effect the following conversions: 3
i) Acetic acid to methane
ii) Propan -2-ol to 2-Bromopropane
b) Draw the structural formula of acetophenone.
9. Write the mechanism for the addition of HBr to an unsymmetrical alkene in the presence of peroxide with the help of a suitable example. 3
10. a) Draw the Saw Horse projections for ethane and compare the stabilities of the two forms giving reasons. 3
b) Why is peroxide effect not observed in the addition of HI?

End of the Question Paper