Vidyamandir Classes
Gurukul for IITJEE & Medical Preparation

Date Planned : __ / __ / __	Daily Tutorial Sheet-7	Expected Duration : 45 Min
Actual Date of Attempt : __ / __ / __	JEE Advanced Archive	Exact Duration :_____

91. The total number of cyclic isomers possible for a hydrocarbon with the molecular formula C_4H_6 is : **(2010)**

92. One mole of a symmetrical alkene on ozonolysis gives two moles of an aldehyde having a molecular mass of 44u. The alkene is : **(2010)**

(A) propene **(B)** 1-butene **(C)** 2-butene **(D)** ethene

93. The maximum number of isomers (including stereoisomers) that are possible on mono-chlorination of the following compound, $CH_3CH_2CH(CH_3)CH_2CH_3$ is : **(2011)**

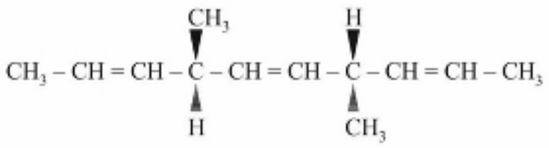
94. Ozonolysis of an organic compound gives formaldehyde as one of the products. This confirms the presence of : **(2011)**

(A) a vinyl group **(B)** an isopropyl group
(C) an acetylenic triple bond **(D)** two ethylenic double bonds

95. Which branched chain isomer of the hydrocarbon with molecular mass 72u gives only one isomer of mono substituted alkyl halide ? **(2012)**

(A) Tertiary butyl chloride **(B)** Neopentane
(C) Isohexane **(D)** Neohexane

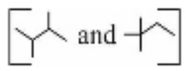
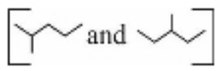
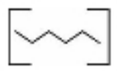
96. The number of optically active products obtained from the complete ozonolysis of the given compound, is:



(2012)

(A) 0 **(B)** 1 **(C)** 2 **(D)** 4

97. Isomers of hexane, based on their branching, can be divided into three distinct classes as shown in the figure.

I.  **II.**  **III.** 

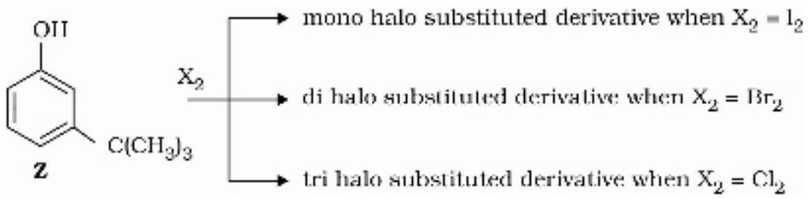
The correct order of their boiling points is : **(2014)**

(A) I > II > III **(B)** III > II > I **(C)** II > III > I **(D)** III > I > II

98. The major organic compound formed by the reaction of 1, 1, 1-trichloroethane with silver powder is :

(A) 2-Butene **(B)** Acetylene **(C)** Ethene **(D)** 2-Butyne **(2014)**

99. The reactivity of compound Z with different halogens under appropriate conditions is given below



The observed pattern of electrophilic substitution can be explained by : **(2014)**