



a) 4-Octylcyclopentane.

b) 5-Cyclopentyloctane.

d) 1-Cyclopentyl-1-propylbutane.

c) 4-Cyclopentyloctane.

10- What is the IUPAC name for $CH_3CH_2C(CH_3)_2CH_2CH(CH_3)_2$?

a) 2,4,4-Trimethylhexane.b) 2,2,5-Trimethylhexane.c) 1,1,3,3-Tetramethylpentane.d) 3,3,5-Trimethylhexane.

1. 3-Hexene can show geometrical isomerism while 2-methyl-2-butene cannot. **(T)** (F). **2.** Boiling point of 3,3-Dimethyloctane is higher than decane. (T) <u>(F)</u>. 3. Hydrohalogenation of 4-Methyl-1-hexene with HCl will produce 2-chloro -4-methylhexane. (F). **(T) 4.** The hybridization of all carbon atoms in Butene is sp^2 (T) <u>(F)</u>. 5. The sigma bond between hydrogen and carbon atoms in acetylene is made by overlap of sp^2

hybridized orbital of a carbon atom with 1S orbital of hydrogen atom. (T) <u>(F)</u>.

III) Choose the correct and the major product for the following reactions:



II) State whether the following statements are true or false

4- What is the best reagent used for the following reaction?



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