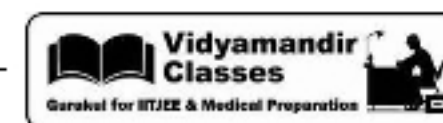




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of 2



Date Planned : __ / __ / __	Daily Tutorial Sheet-1	Expected Duration : 45 Min
Actual Date of Attempt : __ / __ / __	JEE Main Archive	Exact Duration : _____

- What is the product formed when acetylene reacts with hypochlorous acid ? **(2002)**
(A) CH_3COCl **(B)** ClCH_2CHO **(C)** Cl_2CHCHO **(D)** ClCHCOOH
- On vigorous oxidation by alkaline permanganate solution, $(\text{CH}_3)_2\text{C} = \text{CH} - \text{CH}_2\text{CHO}$ gives : **(2002)**
(A) $(\text{CH}_3)_2\text{C}(\text{OH}) - \text{CH}(\text{OH}) - \text{CH}_2\text{CH}_3$ **(B)** $\text{CH}_3\text{COCH}_3 + \text{HOOCCH}_2\text{COOH}$
(C) $\text{CH}_3\text{CH}(\text{OH}) - \text{CH}_2\text{CH}_2\text{OH}$ **(D)** $\text{CH}_3\text{CO} + \text{CH}_3\text{CH}_2\text{CHO}$
- Which of these will not react with acetylene ? **(2002)**
(A) NaOH **(B)** Amm. AgNO_3 **(C)** Na **(D)** HCl
- Butene-1 may be converted to butane by reaction with : **(2003)**
(A) Zn-Hg **(B)** Pd/H_2 **(C)** Zn-HCl **(D)** Sn/HCl
- On warming a certain alkane with chlorine and irradiating it with UV light, it forms only one monochloroalkane. This alkane could be : **(2003)**
(A) Isopentane **(B)** Neopentane **(C)** Propane **(D)** Pentane
- Which one of the following has the minimum boiling point ? **(2004)**
(A) Isobutane **(B)** 1-Butyne **(C)** 1-Butene **(D)** n-Butane
- Of the five isomeric hexanes, the isomer which can give two mono-chlorinated compound is : **(2005)**
(A) n-hexene **(B)** 2, 3-Dimethyl butane
(C) 2, 2-Dimethyl butane **(D)** 2-Methyl pentane
- 2-Methyl butane on reacting with Br_2 in the presence of sunlight mainly gives : **(2005)**
(A) 1-Bromo-2-Methyl butane **(B)** 2-Bromo-2-Methyl butane
(C) 2-Bromo-3-Methyl butane **(D)** 1-Bromo-3-Methyl butane
- Reaction of one molecule of HBr with one molecule of 1, 3-butadiene at 40°C gives predominantly : **(2005)**
(A) 3-Bromobutene under kinetically controlled conditions
(B) 1-Bromo-2-butene under thermodynamically controlled conditions
(C) 3-Bromobutene under thermodynamically controlled conditions
(D) 1-Bromo-2-butene under kinetically controlled conditions
- Which of the following reactions will yield 2, 2-dibromopropane ? **(2007)**
(A) $\text{CH}_3 - \text{C} \equiv \text{CH} + 2\text{HBr} \longrightarrow$ **(B)** $\text{CH}_3\text{CH} = \text{CHBr} + \text{HBr} \longrightarrow$
(C) $\text{CH} \equiv \text{CH} + 2\text{HBr} \longrightarrow$ **(D)** $\text{CH}_3 - \text{CH} = \text{CH}_2 + \text{HBr} \longrightarrow$
- The compound formed as a result of oxidation of ethyl benzene by KMnO_4 is : **(2007)**
(A) benzophenone **(B)** acetophenone
(C) benzoic acid **(D)** benzyl alcohol