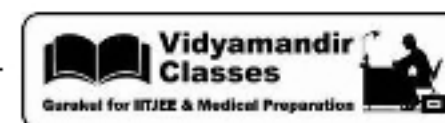


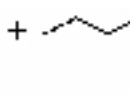
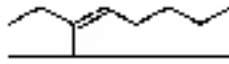
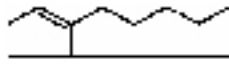
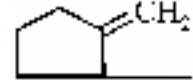
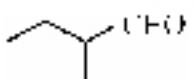
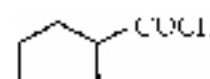
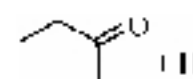
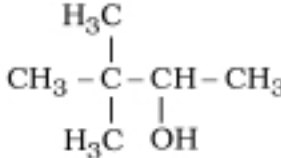
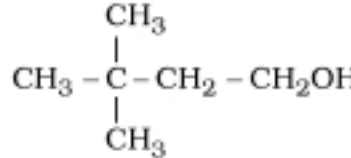
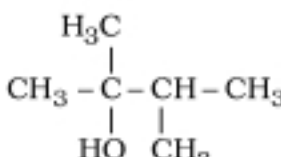
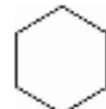
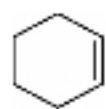
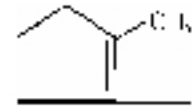
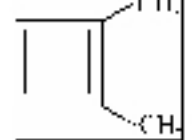


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Date Planned : __ / __ / __	Daily Tutorial Sheet-3	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-1	Exact Duration : _____

31. Alkene (A) $\xrightarrow[\Delta]{\text{KMnO}_4/\text{H}^+}$  +  is :
- (A)  (B) 
 (C)  (D) 
32.  on ozonolysis gives :
- (A)  (B)  (C)  + HCN (D) None of these
33. Which one of the following has the smallest heat of hydrogenation per mole ?
- (A) 1-butene (B) Trans-but-2-ene
 (C) Cis-but-2-ene (D) But-1, 2-diene
34. Identify product P. $\text{CH}_3 - \underset{\text{CH}_3}{\overset{\text{CH}_3}{\text{C}}} - \text{CH} = \text{CH}_2 \xrightarrow[2. \text{Oxidation}]{1. \text{Hydroboration}} \text{P}$
- (A)  (B) 
 (C)  (D) None of the above
35. Compound (A) on oxidation with $\text{OsO}_4/\text{NaIO}_4$ gives Hexanedial. Structure of compound (A) will be :
- (A)  (B)  (C)  (D) 
36. $\text{A}(\text{C}_4\text{H}_6) \xrightarrow[1 \text{ mole}]{\text{H}_2, \text{Li}} \text{B}(\text{C}_4\text{H}_8) \xrightarrow[2. \text{H}_2\text{O}/\text{Zn}]{1. \text{O}_3} \text{CH}_3\text{CHO}$. Thus, A and B are :
- (A)  (B) 
 (C) $\text{CH}_3\text{CH}_2\text{C}=\text{CH}$, $\text{CH}_3\text{CH}=\text{CHCH}_3$ (D) $\text{CH}_2=\text{CH}-\text{CH}=\text{CH}_2$, $\text{CH}_3\text{CH}=\text{CHCH}_3$
37. $\text{A} \xrightarrow[2. \text{Zn}, \text{H}_2\text{O}]{1. \text{O}_3} (\text{CH}_3)_2\text{CO} + \text{HCHO} + \begin{array}{c} \text{CHO} \\ | \\ \text{CHO} \end{array}$
 Thus, A is :
- (A) $(\text{CH}_3)_2\text{CHCH}=\text{CHCH}=\text{CH}_2$ (B) $(\text{CH}_3)_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2$
 (C) $\text{CH}_3\text{CH}=\text{CH}-\text{CH}=\text{CH}-\text{CH}=\text{CH}_2$ (D) None of these