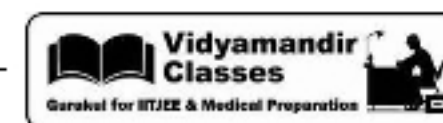




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of 2



Date Planned : __ / __ / __	Daily Tutorial Sheet-6	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-2	Exact Duration : _____

**For Question No. 76 to 77**



- (A) Statement-1 is True, Statement-2 is True; Statement-2 is a correct explanation for Statement-1
- (B) Statement-1 is True, Statement-2 is True; Statement-2 is NOT a correct explanation for Statement-1
- (C) Statement-1 is True, Statement-2 is False
- (D) Statement-1 is False, Statement-2 is True

**76. Statement-1:** n-Butane has higher m.pt than its next lower alkane propane.

**Statement-2:** Melting points of alkanes do not show regular variation with increase in molecular size.

**77. Statement-1:** Corey-House reaction can be used to prepare both symmetrical and unsymmetrical alkanes.

**Statement-2:** The reaction involves the interaction between lithium dialkyl copper with an alkyl halide both of which may contain even or odd number of carbon atoms.

**78.** On heating  $\text{CH}_3\text{COONa}$  with sodalime the gas evolved will be :



- (A)  $\text{C}_2\text{H}_2$  (B)  $\text{CH}_4$  (C)  $\text{C}_2\text{H}_6$  (D)  $\text{C}_2\text{H}_4$

**79.** Which of the following will have least hindered rotation about carbon-carbon bond?



- (A) Ethane (B) Ethylene (C) Acetylene (D) Hexafluoro ethane

**80.** What is the chief product obtained when n-butane is treated with bromine in the presence of light at  $130^\circ$  ?



- (A)  $\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{Br}$  (B)  $\text{CH}_3 - \text{CH}_2 - \underset{\text{CH}_3}{\text{CH}} - \text{Br}$
- (C)  $\text{CH}_3 - \underset{\text{CH}_3}{\text{CH}} - \text{CH}_2 - \text{Br}$  (D)  $\text{H}_3\text{C} - \underset{\text{CH}_3}{\overset{\text{CH}_3}{\text{C}}} - \text{Br}$

**81.** Bromination of an-alkane as compared to chlorination proceeds



- (A) at a slower rate
- (B) at a faster rate
- (C) with equal rates
- (D) with equal or different rates depending upon the temperature

**82.** The product obtained on heating n-heptane with  $\text{Cr}_2\text{O}_3 - \text{Al}_2\text{O}_3$  at  $600^\circ\text{C}$  is :



- (A) Cyclohexene (B) Cyclohexane (C) Benzene (D) Toluene

**83.** 1 - Chlorobutane on reaction with alcoholic potash gives :



- (A) 1-butene (B) 1-butanol (C) 2-butene (D) 2-butanol