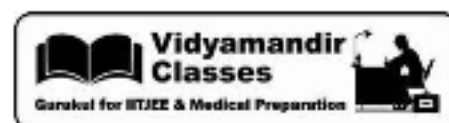




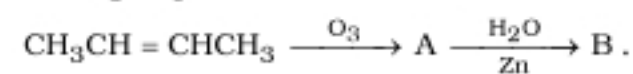
2

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- 12.** Toluene is nitrated and the resulting product is reduced with tin and hydrochloric acid. The product so obtained is diazotized and then heated with cuprous bromide. The reaction mixture so formed contains :
- (A) mixture of o- and p-bromotoluenes (B) mixture of o- and p-dibromobenzenes (2008)
 (C) mixture of o- and p-bromoanilines (D) mixture of o- and m-bromotoluenes

- 13.** In the following sequence of reactions, the alkene affords the compound 'B'.



The compound B is :

(2008)

- (A) $\text{CH}_3\text{CH}_2\text{CHO}$ (B) CH_3COCH_3 (C) $\text{CH}_3\text{CH}_2\text{COCH}_3$ (D) CH_3CHO

- 14.** The hydrocarbon which can react with sodium in liquid ammonia is :

(2008)

- (A) $\text{CH}_3\text{CH}_2\text{CH}_2\text{C}\equiv\text{CCH}_2\text{CH}_2\text{CH}_3$ (B) $\text{CH}_3\text{CH}_2\text{C}\equiv\text{CH}$
 (C) $\text{CH}_3\text{CH}=\text{CHCH}_3$ (D) $\text{CH}_3\text{CH}_2\text{C}\equiv\text{CCH}_2\text{CH}_3$

- 15.** The treatment of CH_3MgX with $\text{CH}_3\text{C}\equiv\text{C}-\text{H}$ produces :

(2008)

- (A) $\text{CH}_3-\text{CH}\equiv\text{CH}_2$ (B) $\text{CH}_3\text{C}\equiv\text{C}-\text{CH}_3$
 (C) $\text{CH}_3-\overset{\text{H}}{\underset{|}{\text{C}}}=\overset{\text{H}}{\underset{|}{\text{C}}}-\text{CH}_3$ (D) CH_4