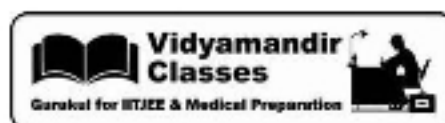




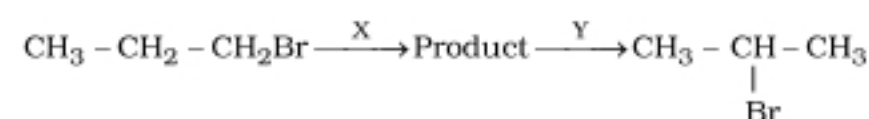
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of 2



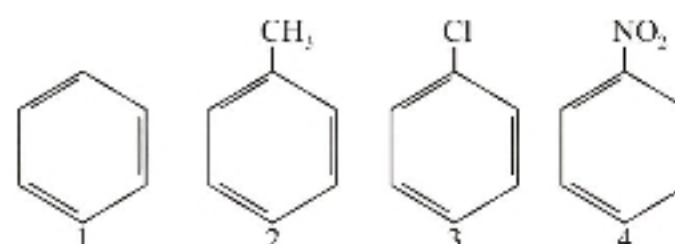
Date Planned : __ / __ / __	Daily Tutorial Sheet-5	Expected Duration : 45 Min
Actual Date of Attempt : __ / __ / __	JEE Advanced Archive	Exact Duration : _____

61. Identify the set of reagents/ reaction condition 'X' and 'Y' in the following set of transformations : (2002)



- (A) X = dilute aqueous NaOH, 20°C; Y = HBr / acetic acid, 20°C
 (B) X = concentrated alcoholic NaOH, 80°C; Y = HBr / acetic acid, 20°C
 (C) X = dilute aqueous NaOH, 20°C; Y = Br₂ / CHCl₃, 0°C
 (D) X = concentrated alcoholic NaOH, 80°C; Y = Br₂ / CHCl₃, 0°C

62. Identify the correct order of reactivity in electrophilic substitution reactions of the following compounds :



(2002)

- (A) 1 > 2 > 3 > 4 (B) 4 > 3 > 2 > 1 (C) 2 > 1 > 3 > 4 (D) 2 > 3 > 1 > 4



63. Which of the following hydrocarbons has the lowest dipole moment ? (2002)

- (A) (B) CH₃C = CCH₃
 (C) CH₃CH₂C = CH (D) CH₂ = CH - C = CH

64. $\text{Ph} - \text{C} = \text{C} - \text{CH}_3 \xrightarrow[\text{H}_2\text{SO}_4]{\text{HgSO}_4} \text{A}$; A is : (2003)

- (A) (B) (C) (D)

65. How many chiral compounds are possible on mono chlorination of 2-methyl butane ? (2004)

- (A) 2 (B) 4 (C) 6 (D) 8

66. 2-hexyne gives trans-2-hexene on treatment with : (2004)

- (A) Li/NH₃ (B) Pd/BaSO₄ (C) LiAlH₄ (D) Pt/H₂

67. 2-phenyl propene on acidic hydration, gives : (2004)

- (A) 2-phenyl-2-propanol (B) 2-phenyl-1-propanol
 (C) 3-phenyl-1-propanol (D) 1-phenyl-2-propanol

68. Which one of the following has the minimum boiling point ? (2004)

- (A) n-butane (B) isobutene (C) 1-butene (D) 1-butyne