

Questions with Answer Keys

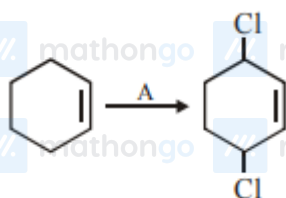
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Q1: 16 March (Shift 1) - Single Correct

Which of the following is Lindlar catalyst?

- (1) Zinc chloride and HCl
- (2) Cold dilute solution of KMnO_4
- (3) Sodium and Liquid NH_3
- (4) Partially deactivated palladised charcoal

Q2: 16 March (Shift 2) - Single Correct

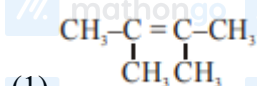


Identify the reagent(s) 'A' and condition(s) for the reaction:

- (1) A = HCl; Anhydrous AlCl_3
- (2) A = HCl, ZnCl_2
- (3) A = Cl_2 ; UV light
- (4) A = Cl_2 ; dark, Anhydrous AlCl_3

Q3: 16 March (Shift 2) - Single Correct

An unsaturated hydrocarbon X on ozonolysis gives A. Compound A when warmed with ammonical silver nitrate forms a bright silver mirror along the sides of the test tube. The unsaturated hydrocarbon X is:

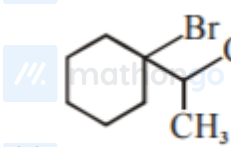
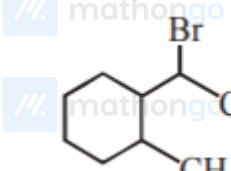
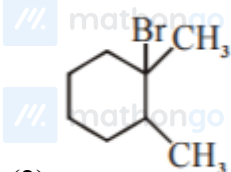
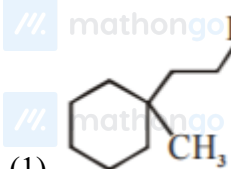
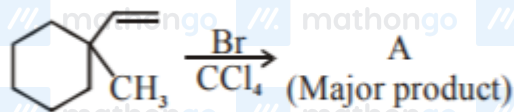


- (1)
$$\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3 - \text{C} = \triangle \end{array}$$
- (2)
$$\text{HC} \equiv \text{C} - \text{CH}_2 - \text{CH}_3$$
- (3)
$$\text{CH}_3 - \text{C} \equiv \text{C} - \text{CH}_3$$
- (4)
$$\text{CH}_3 - \text{C} \equiv \text{C} - \text{CH}_3$$

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Q4: 17 March (Shift 1) - Single Correct



Q5: 17 March (Shift 2) - Single Correct

Given below are two statements:

Statement-I : 2-methylbutane on oxidation with KMnO_4 gives 2-methylbutan-2-ol.Statement-II : n-alkanes can be easily oxidised to corresponding alcohol with KMnO_4 . Choose the correct

option :

- (1) Both statement I and statement II are correct
- (2) Both statement I and statement II are incorrect
- (3) Statement I is correct but Statement II is incorrect
- (4) Statement I is incorrect but Statement II is correct

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Q6: 17 March (Shift 2) - Numerical

The total number of C — C sigma bond/s in mesityl oxide ($C_6H_{10}O$) is _____ (Round off to the Nearest Integer).

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Answer Key

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Q1 (4)

Q2 (3)

Q3 (3)

Q4 (4)

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Q5 (3)

Q6 (5)

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