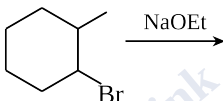
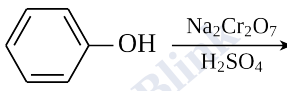


JEE MAIN HALOALKANES AND HALOARENES — ELIMINATION REACTIONS OF HALOALKANES — PYQS

Max. Marks: 16
Questions: 4

Section A (MCQ) — 3 questions

Q.1 The reactions which cannot be applied to prepare an alkene by elimination, are

- A. 
- B. $\text{CH}_3 - \text{CH}_2 - \underset{\text{Br}}{\text{CH}} - \text{CH}_3 \xrightarrow{\text{KOH (aq)}}$
- C. $\text{CH}_3 - \underset{\text{CH}_3}{\overset{\text{CH}_3}{\text{C}}} - \text{Br} \xrightarrow{\text{NaOMe}}$
- D. 
- E. $\text{CH}_3 - \underset{\text{CH}_3}{\overset{\text{CH}_3}{\text{C}}} - \text{OH} \xrightarrow[573 \text{ K}]{\text{Cu}}$

Choose the correct answer from the options given below: [JEE Main 2025 (Online) 7th April Morning Shift]

- (1) B & E Only (2) B, C & D Only
 (3) A, C & D Only (4) B & D Only

Scan or tap for the full solution



Q.2 Given below are two statements :

Statement-I: Alcohols are formed when alkyl chlorides are treated with aqueous potassium hydroxide by elimination reaction.

Statement-II: In alcoholic potassium hydroxide, alkyl chlorides form alkenes by abstracting the hydrogen from the β -carbon.

In the light of the above statements, choose the most appropriate answer from the options given below :

[JEE Main 2025 (Online) 4th April Evening Shift]

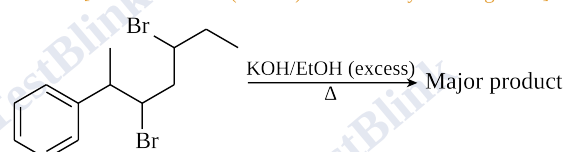
- (1) Both Statement-I and Statement-II are incorrect
 (2) Both Statement-I and Statement-II are correct
 (3) Statement-I is incorrect but Statement-II is correct
 (4) Statement-I is correct but Statement-II is incorrect

Scan or tap for the full solution



Q.3 The major product of the following reaction is:

[JEE Main 2025 (Online) 28th January Evening Shift]



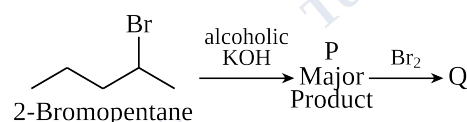
- (1) 6-Phenylhepta-3,5-diene
 (2) 6-Phenylhepta-2,4-diene
 (3) 2-Phenylhepta-2,4-diene
 (4) 2-Phenylhepta-2,5-diene

Scan or tap for the full solution



Section B (Numerical) — 1 question

Q.4



Consider the above sequence of reactions. 151 g of 2-bromopentane is made to react. Yield of major product P is 80% whereas Q is 100%.

Mass of product Q obtained is _____ g.

(Given molar mass in g mol^{-1} H : 1, C : 12, O : 16, Br : 80) [JEE Main 2025 (Online) 2nd April Evening Shift]

Scan or tap for the full solution



ANSWER KEY

Section A (MCQ) — 3 questions

Ques.	1	2	3								
Ans.	4	3	3								

Section B (Numerical) — 1 question

Ques.	4									
Ans.	184									