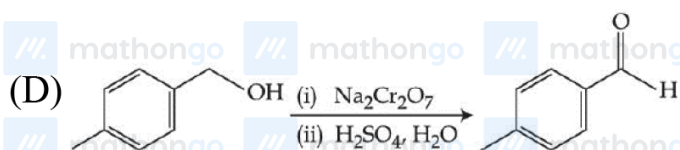
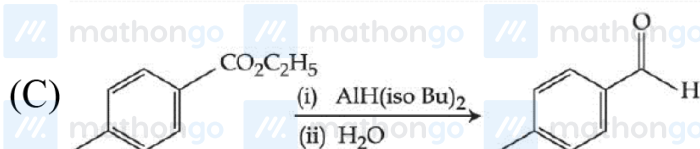
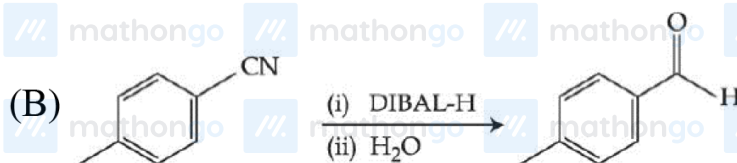
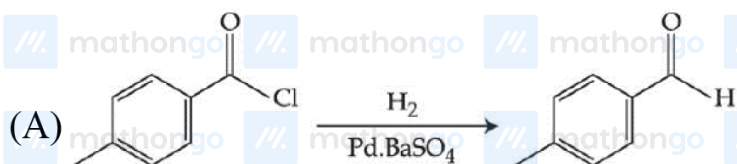


Questions

MathonGo

Q1 - 25 July - Shift 1

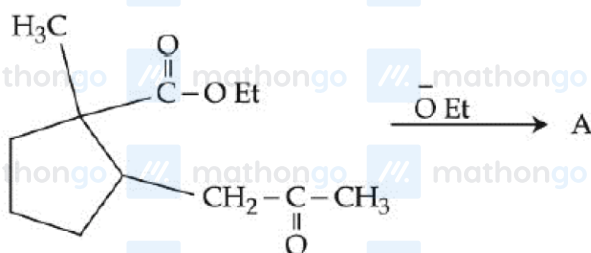
Which one of the following reactions does not represent correct combination of substrate and product under the given conditions ?



Space for your notes:

Q2 - 25 July - Shift 1

In the given reaction



(Where Et is $-\text{C}_2\text{H}_5$)

The number of chiral carbon/s in product A is

Space for your notes:

Q3 - 25 July - Shift 2

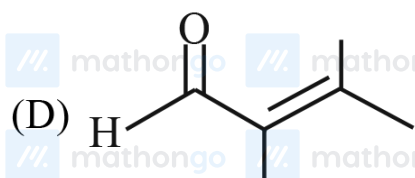
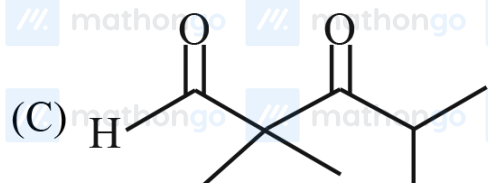
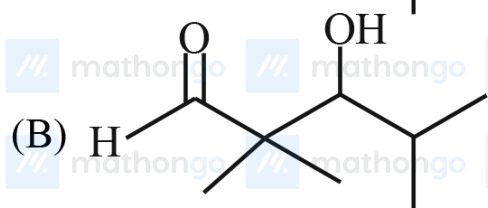
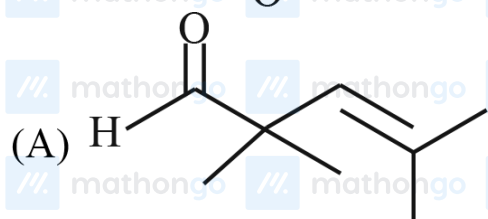
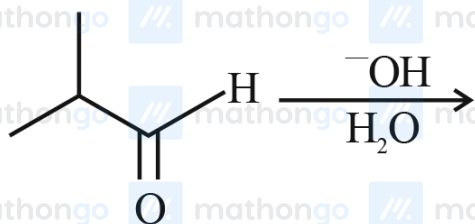
#MathBoleTohMathonGo

Questions

MathonGo

What is the major product of the following reaction?

Space for your notes:



Q4 - 26 July - Shift 1

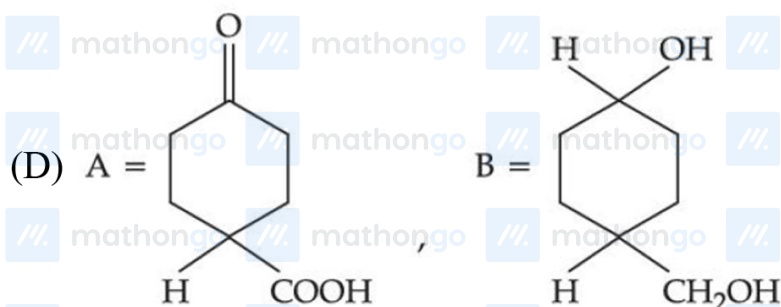
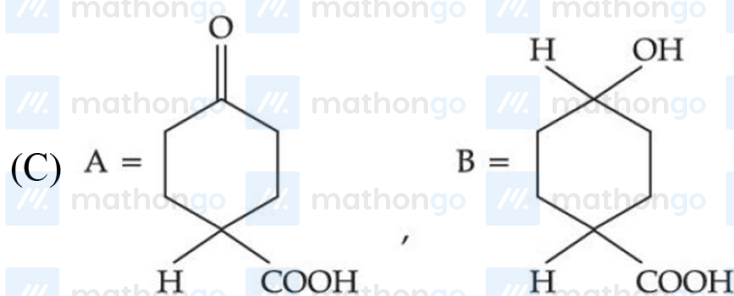
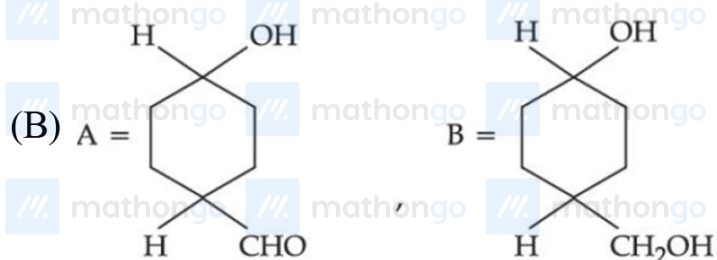
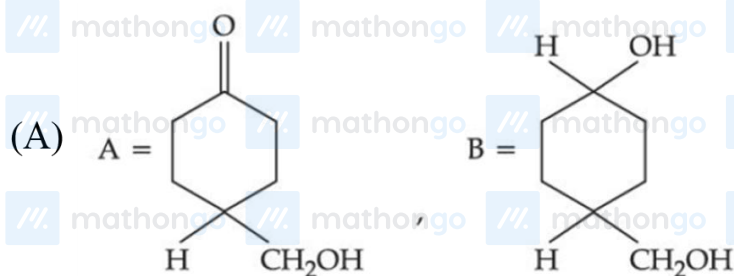
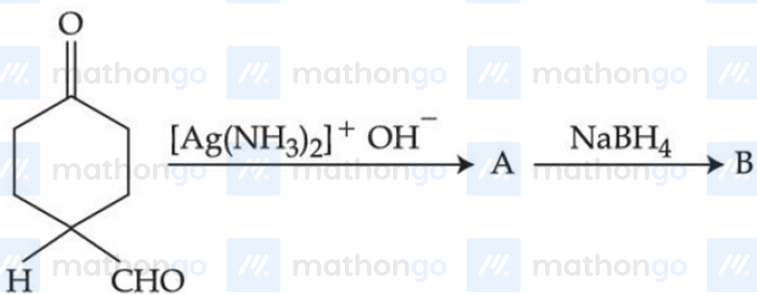
#MathBoleTohMathonGo

Questions

MathonGo

The products formed in the following reaction, A and B are

Space for your notes:

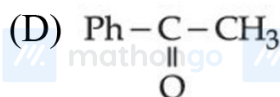
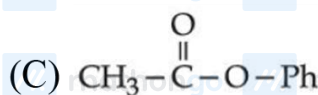
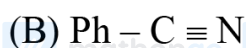
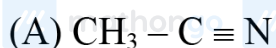
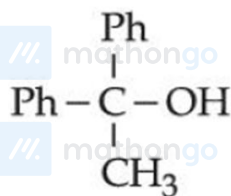


#MathBoleTohMathonGo

Q5 - 26 July - Shift 1

Which reactant will give the following alcohol on reaction with one mole of phenyl magnesium bromide (PhMgBr) followed by acidic hydrolysis ?

Space for your notes:



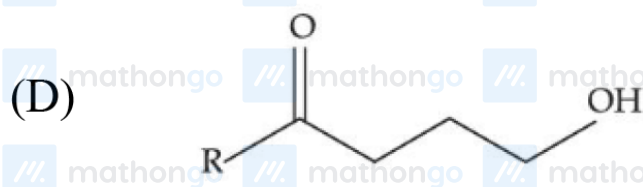
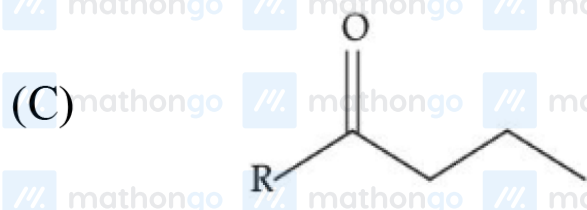
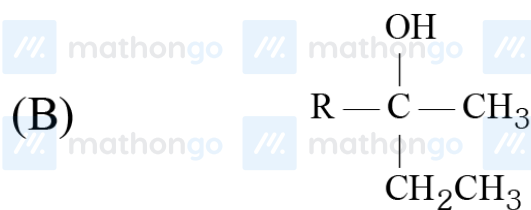
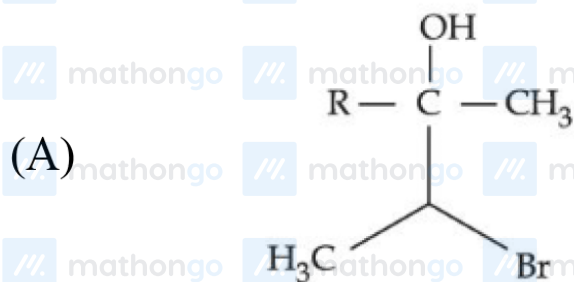
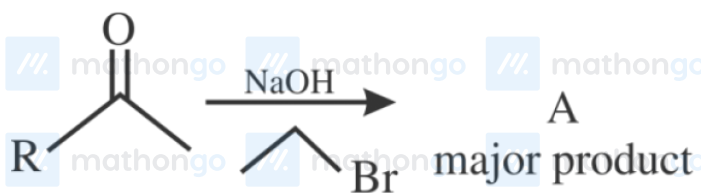
Q6 - 27 July - Shift 2

Questions

MathonGo

The structure of A in the given reaction is:

Space for your notes:

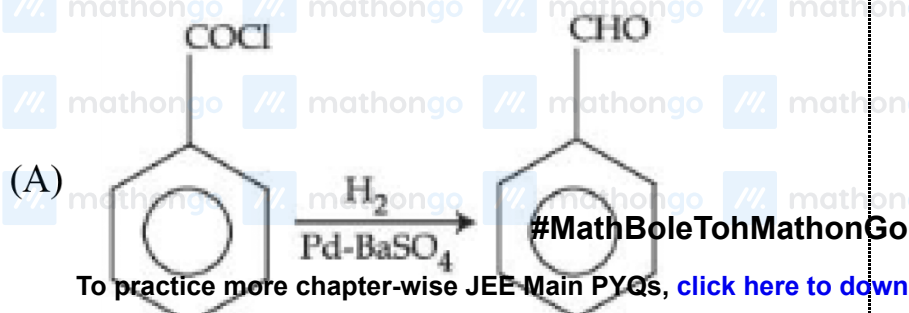


Q7 - 27 July - Shift 2

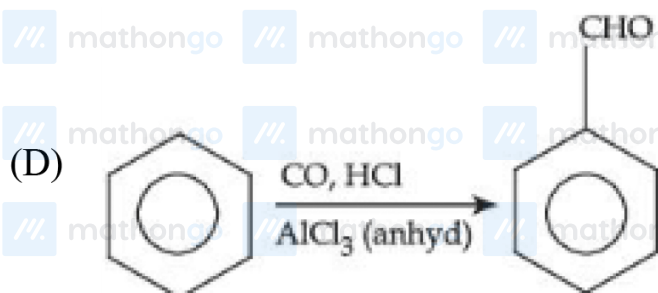
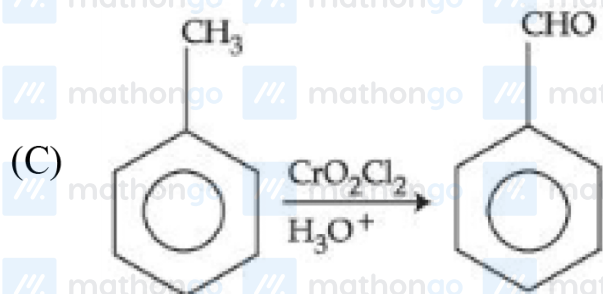
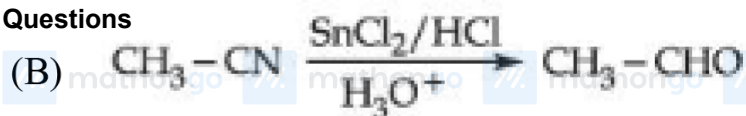
Match List-I with List-II.

Space for your notes:

List-I



Questions



Lits-II

(I) Gatterman Koch reaction

(II) Etard reaction

(III) Stephen reaction

(IV) Rosenmund reaction

Choose the **correct** answer from the options given

below:

(A) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

(B) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)

(C) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

(D) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)

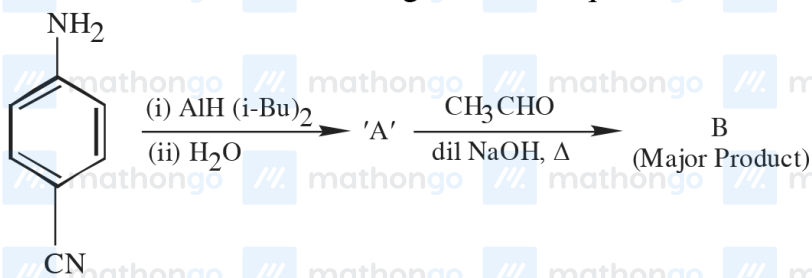
Q8 - 29 July - Shift 1

#MathBoleTohMathonGo

Questions

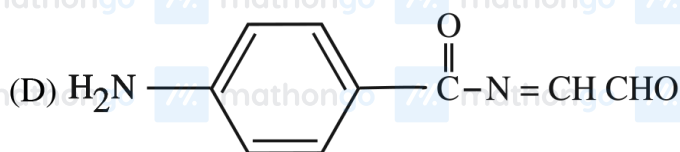
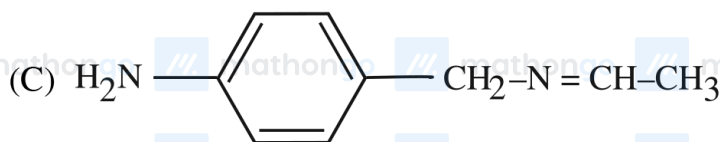
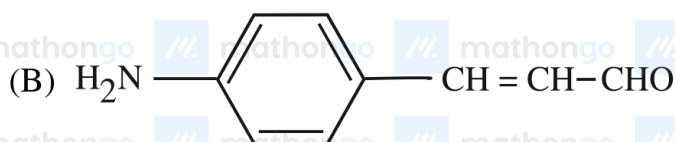
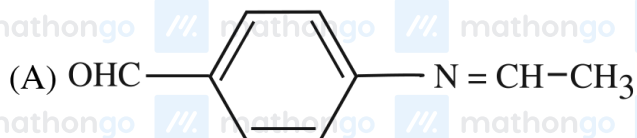
MathonGo

Consider the following reaction sequence :



Space for your notes:

The product 'B' is :



Q9 - 29 July - Shift 2

The number of stereoisomers formed in a reaction of (\pm) $\text{Ph}(\text{C}=\text{O})\text{C}(\text{OH})(\text{CN})\text{Ph}$ with HCN is _____.

Space for your notes:

Questions

MathonGo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

Answer Key

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

Q1 (D)**Q2 (2)****Q3 (B)****Q4 (C)**

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

Q5 (D)**Q6 (C)****Q7 (A)****Q8 (B)**

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

Q9 (3)

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

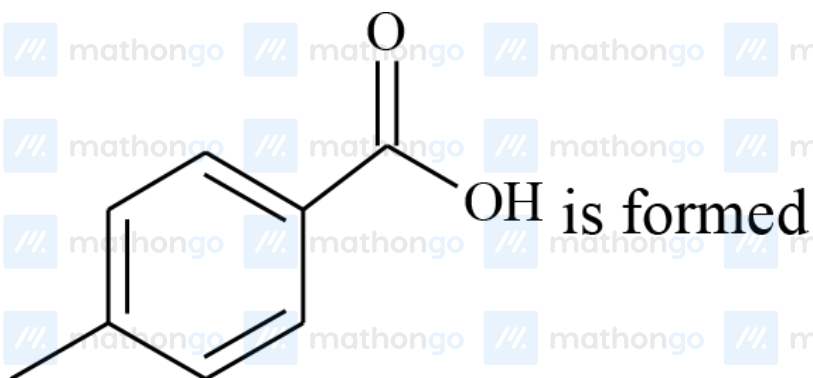
/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

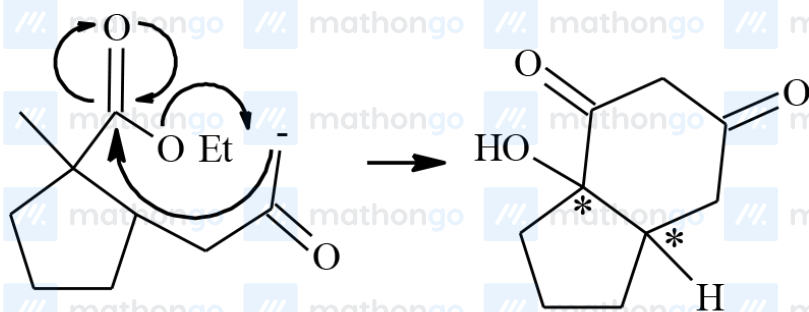
/// mathongo // mathongo // mathongo // mathongo // mathongo // mathongo

#MathBoleTohMathonGo

Q1 (D)

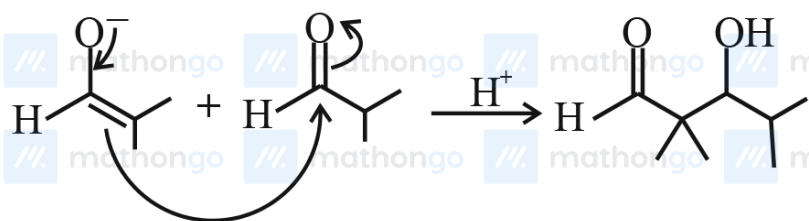
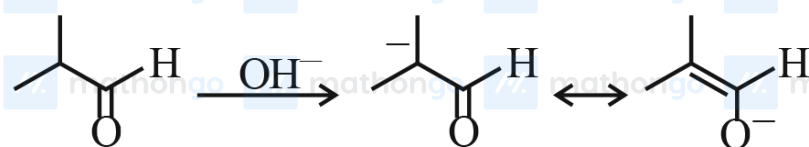


Q2 (2)



2 chiral carbons

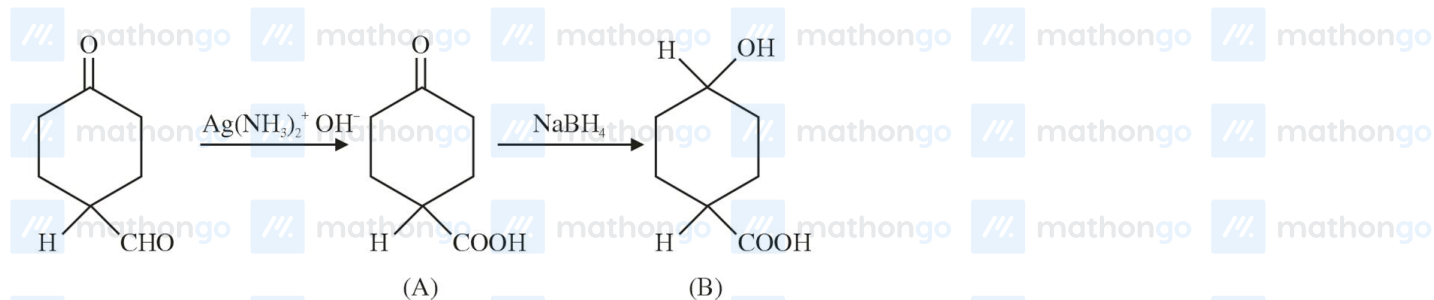
Q3 (B)



Aldol formation takes place.

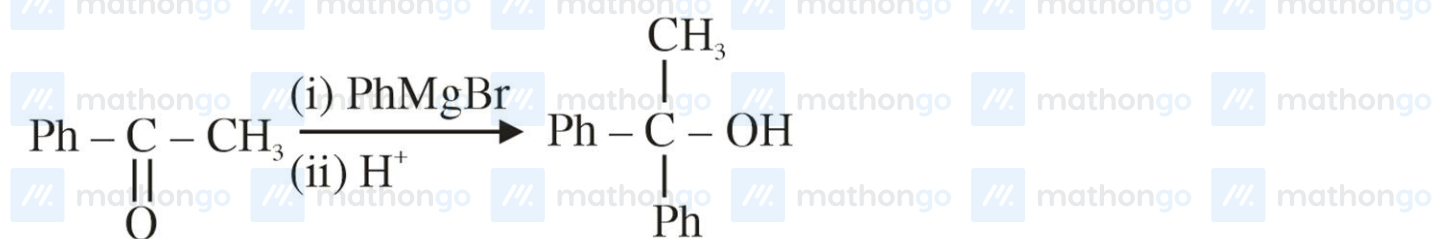
Q4 (C)

#MathBoleTohMathonGo

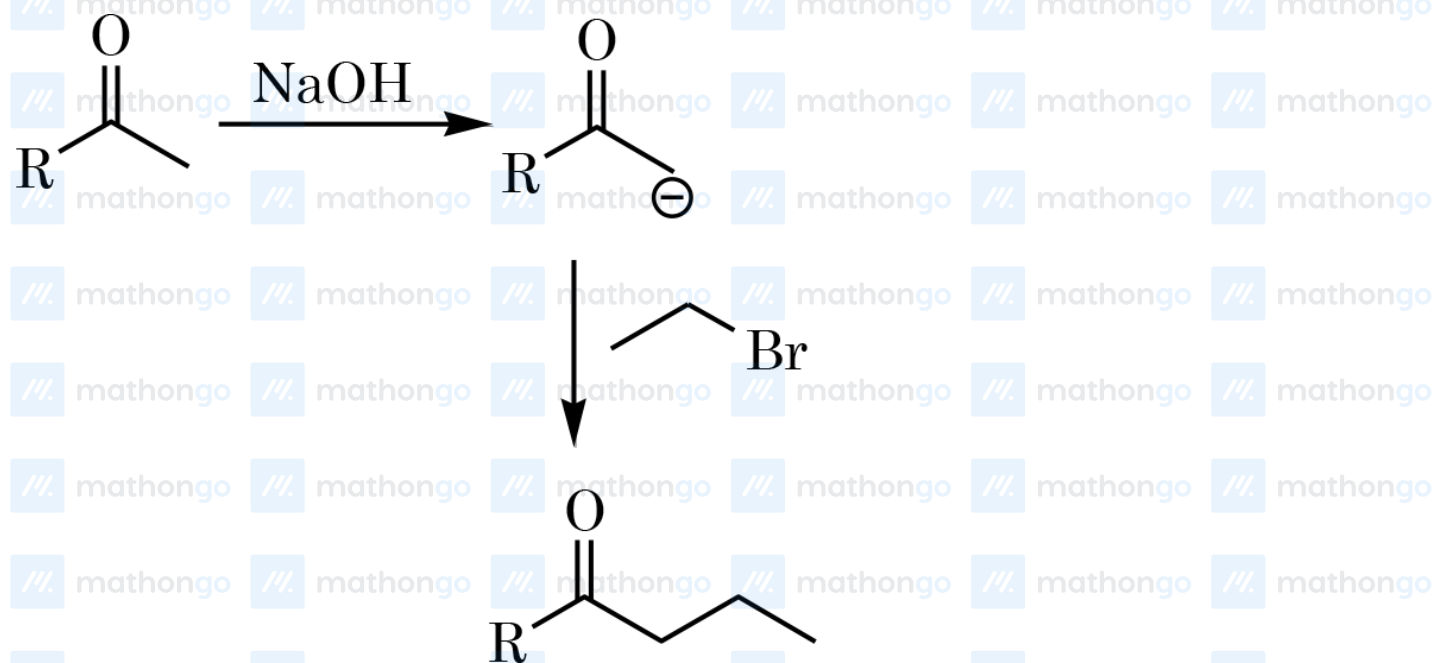


NaBH_4 does not reduce carboxylic acid.

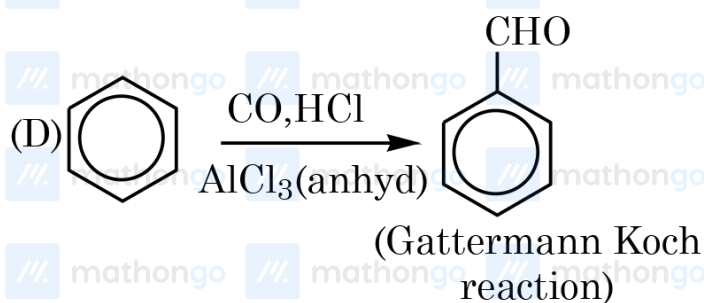
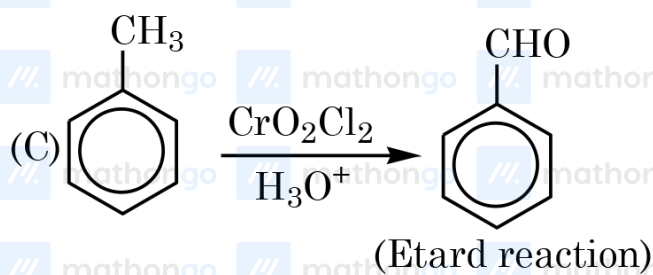
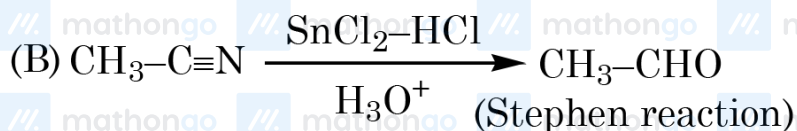
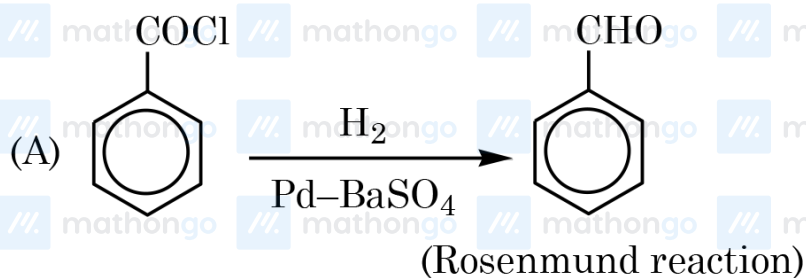
Q5 (D)



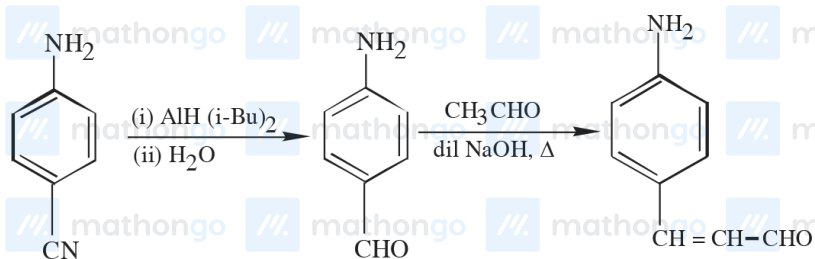
Q6 (C)



Q7 (A)



Q8 (B)

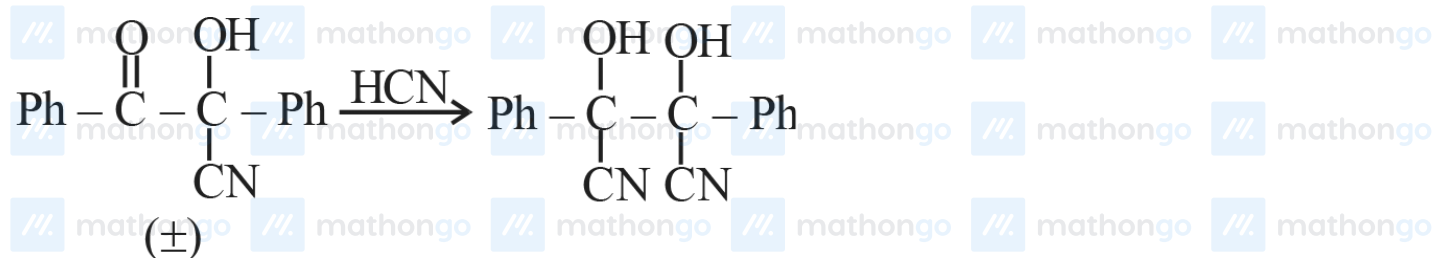


Cross aldol condensation

Q9 (3)

Hints and Solutions

MathonGo



3 stereoisomers

#MathBoleTohMathonGo