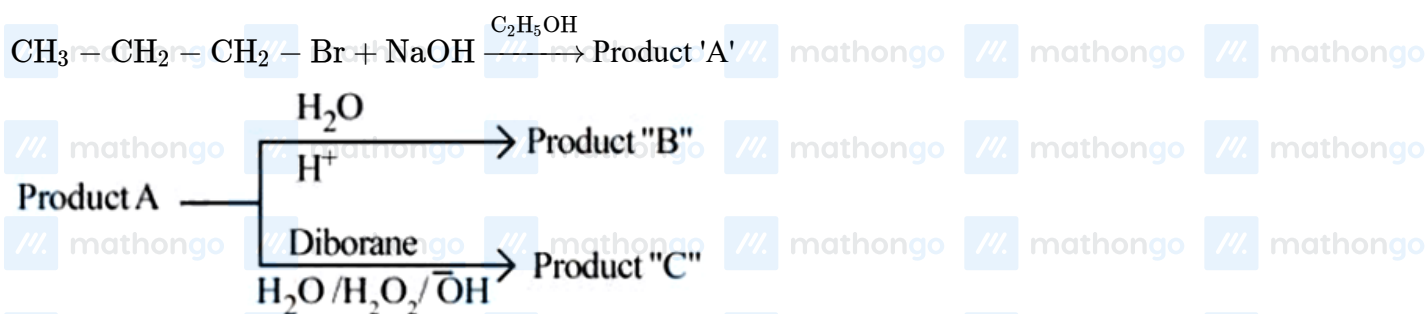


Questions

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Q1 - 2024 (04 Apr Shift 2)



Consider the above reactions, identify product B and product C.

- (1) B = 1-Propanol C = 2-Propanol
- (2) B = C = 2-Propanol
- (3) B = 2-Propanol C = 1-Propanol
- (4) B = C = 1-Propanol

Q2 - 2024 (05 Apr Shift 1)

Given below are two statement:

Statements I : Bromination of phenol in solvent with low polarity such as CHCl_3 or CS_2 requires Lewis acid catalyst.

Statements II : The Lewis acid catalyst polarises the bromine to generate Br^+ .

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

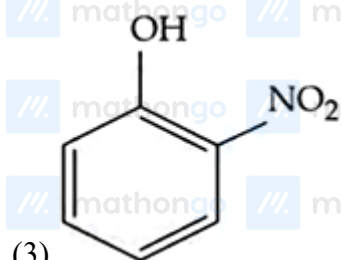
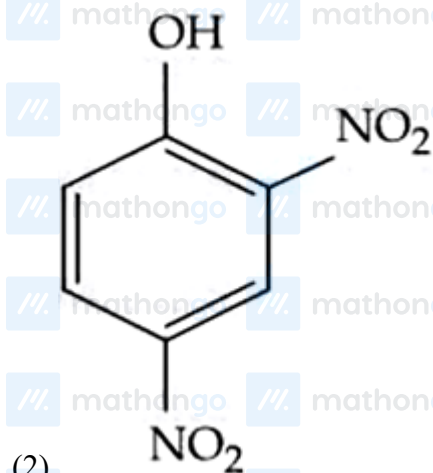
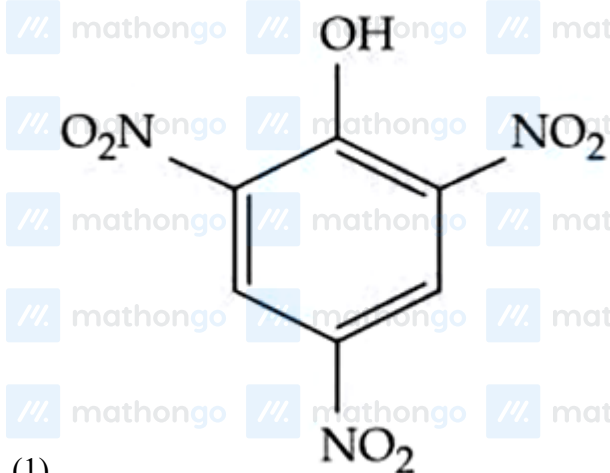
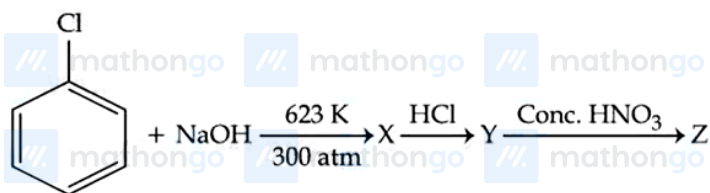
- (1) Both Statement I and Statement II are true
- (2) Statement I is true but Statement II is false
- (3) Statement I is false but Statement II is true
- (4) Both Statement I and Statement II are false

Q3 - 2024 (05 Apr Shift 1)

Questions

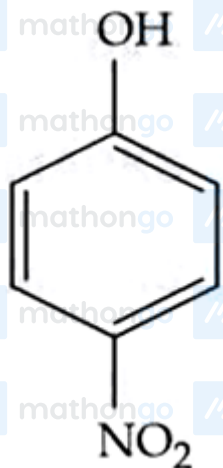
MathonGo

Identify compound (Z) in the following reaction sequence.



Questions

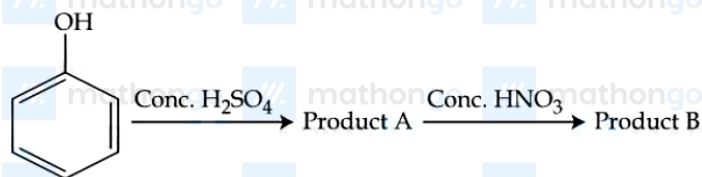
MathonGo



(4)

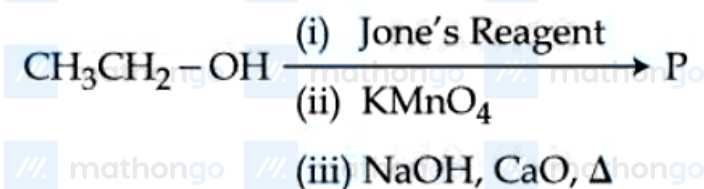
Q4 - 2024 (05 Apr Shift 1)

Consider the given chemical reaction sequence :



Total sum of oxygen atoms in Product A and Product B are _____

Q5 - 2024 (05 Apr Shift 2)

Consider the above reaction sequence and identify the major product *P*.

- (1) Methoxymethane
- (2) Methanoic acid
- (3) Methanal
- (4) Methane

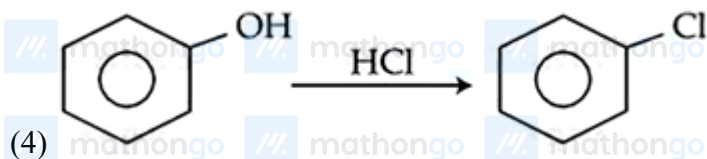
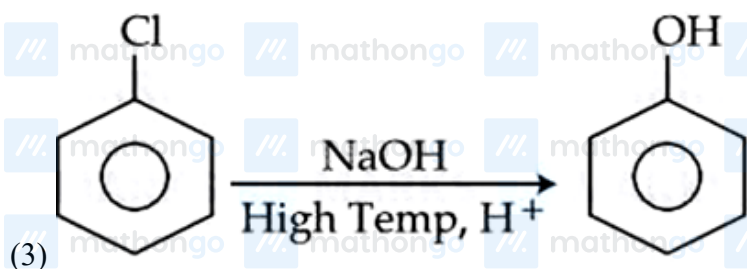
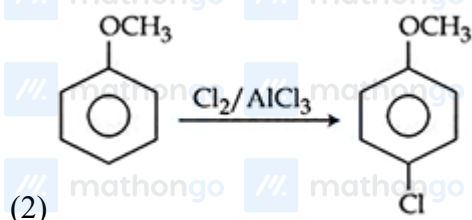
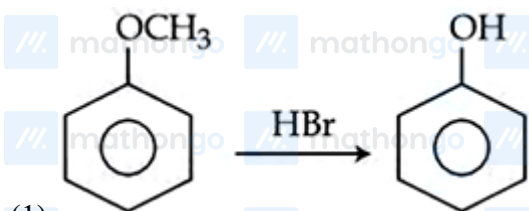
Q6 - 2024 (05 Apr Shift 2)

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Questions

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Which one of the following reactions is NOT possible?



Q7 - 2024 (06 Apr Shift 1)

Given below are two statements :

Statement I : Picric acid is 2,4,6 - trinitrotoluene.

Statement II : Phenol - 2,4 - disulphonic acid is treated with Conc. HNO_3 to get picric acid.

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

(1) Statement I is incorrect but Statement II is correct

(2) Both Statement I and Statement II are incorrect

(3) Statement I is correct but Statement II is incorrect

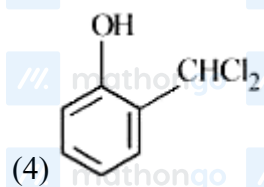
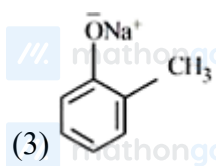
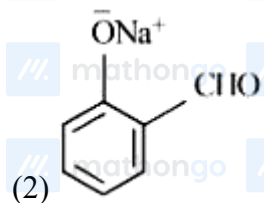
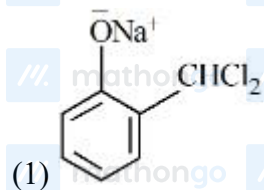
(4) Both Statement I and Statement II are correct

Q8 - 2024 (06 Apr Shift 1)

Questions

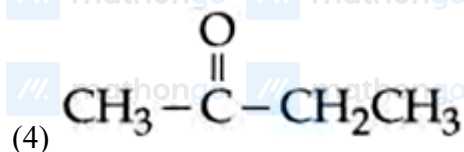
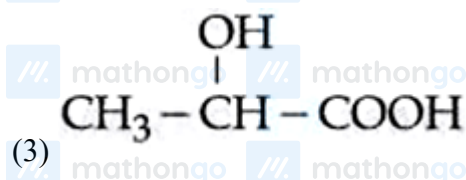
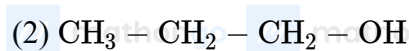
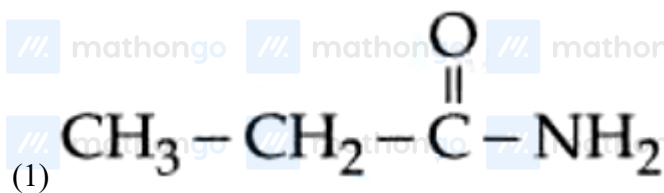
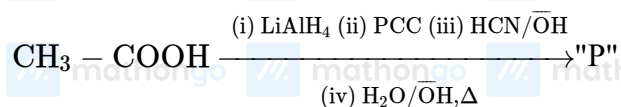
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In Reimer - Tiemann reaction, phenol is converted into salicylaldehyde through an intermediate. The structure of intermediate is _____



Q9 - 2024 (06 Apr Shift 2)

Consider the given reaction, identify the major product *P*.

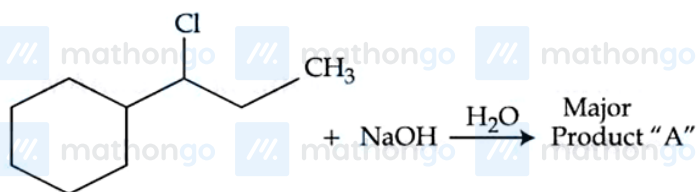


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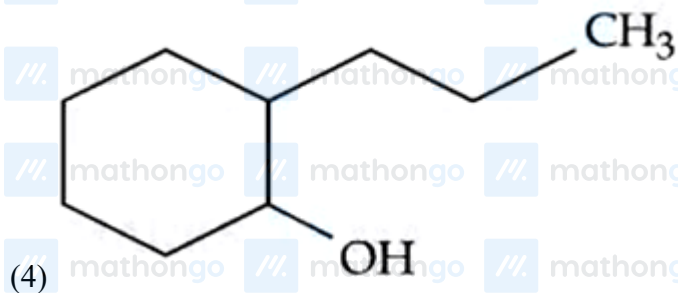
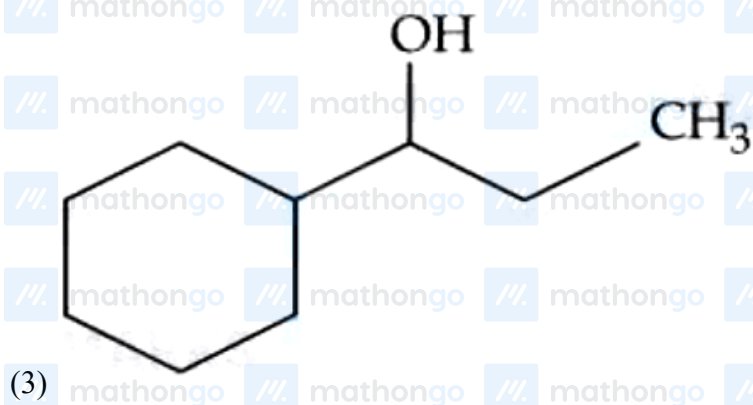
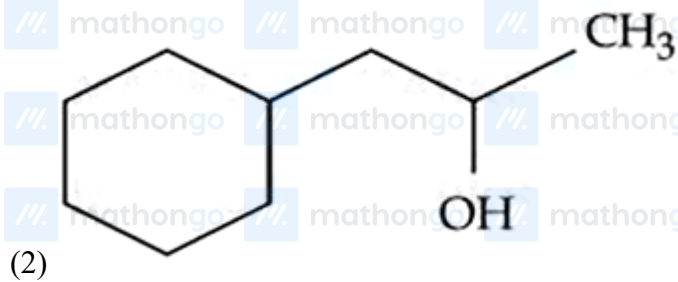
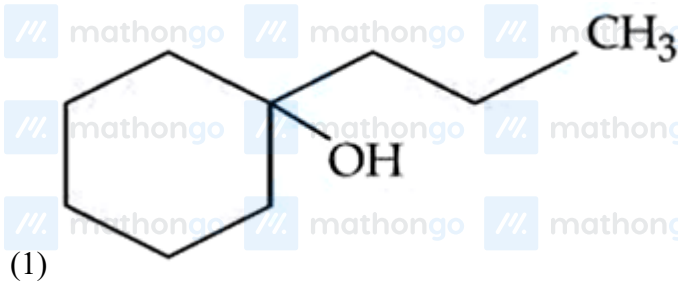
Questions

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Q10 - 2024 (06 Apr Shift 2)



Consider the above chemical reaction. Product "A" is :



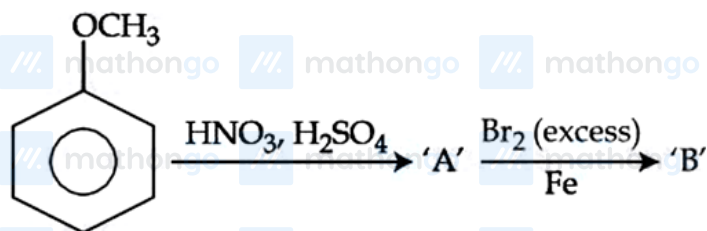
Q11 - 2024 (06 Apr Shift 2)

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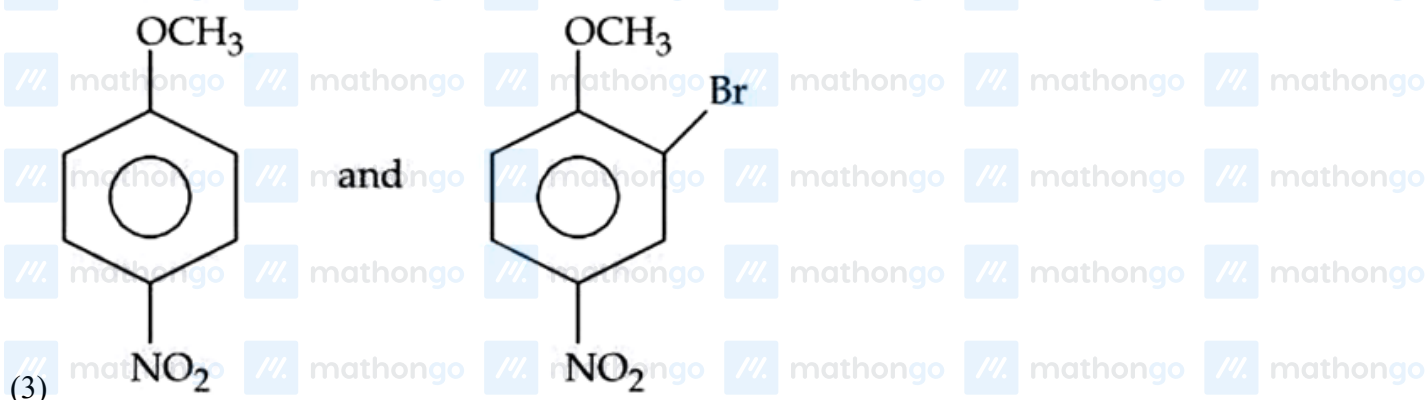
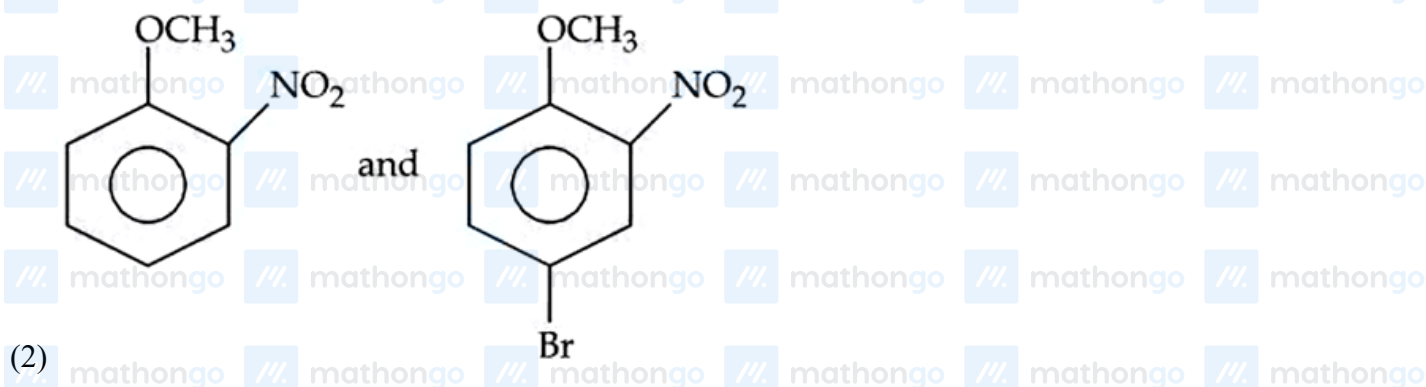
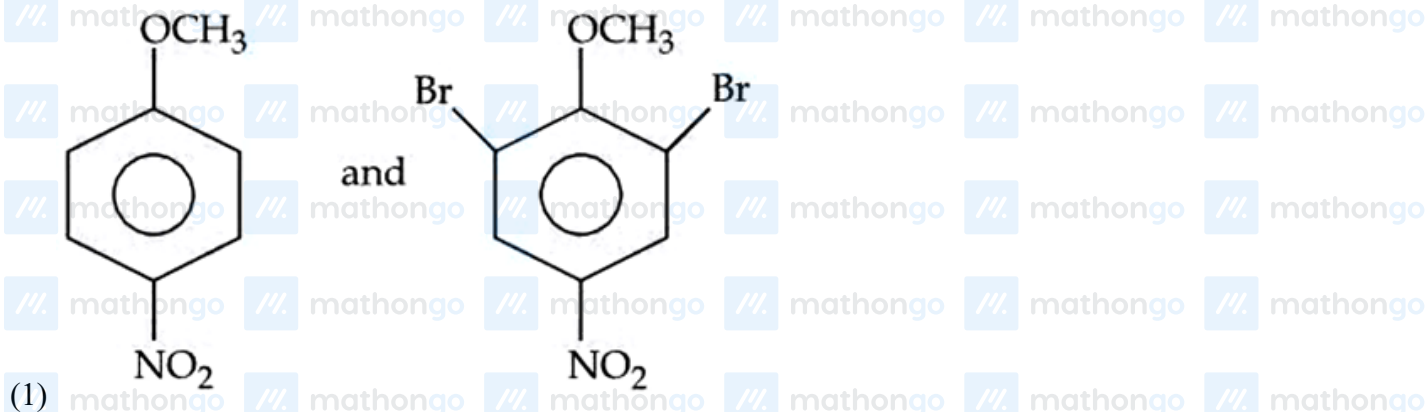
Questions

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The major products formed :

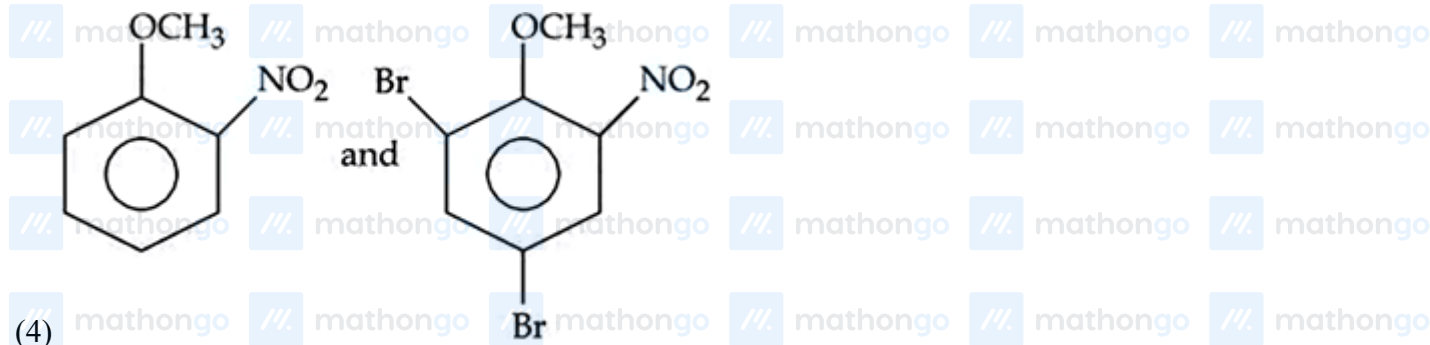


A and B respectively are:



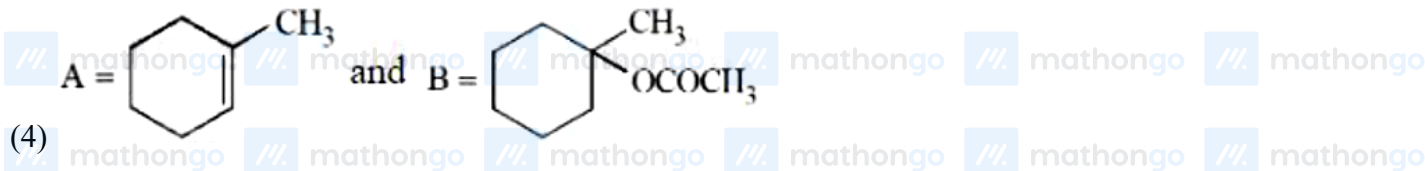
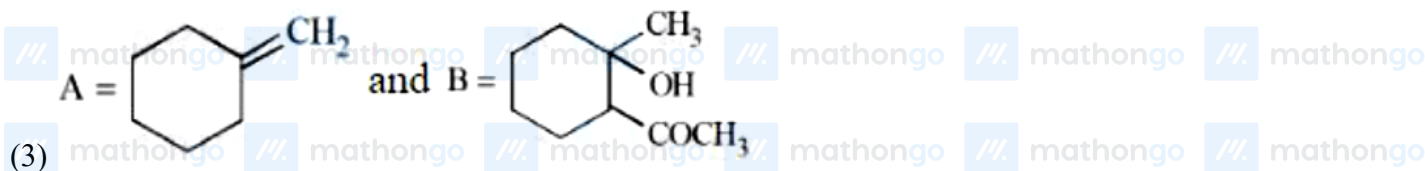
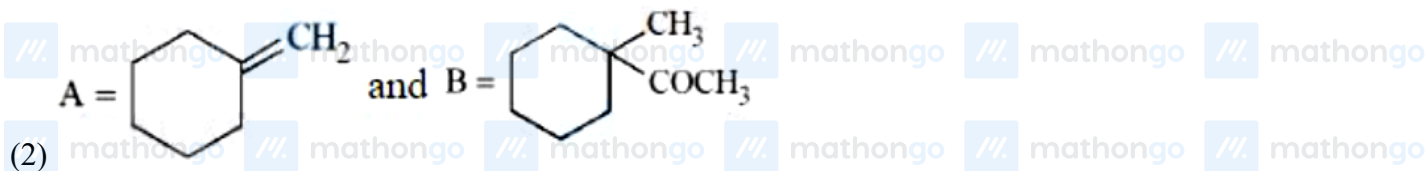
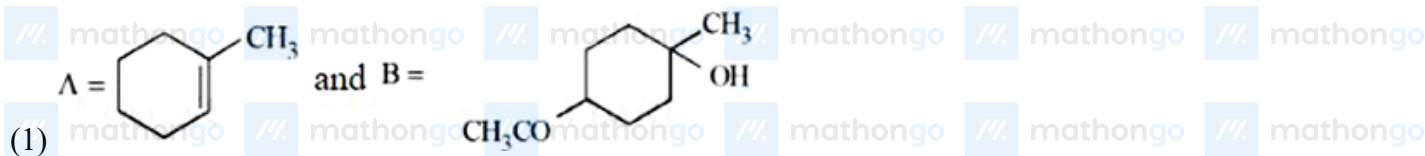
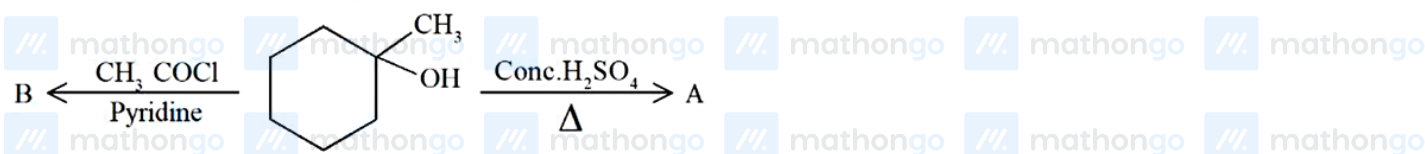
Questions

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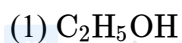
Q12 - 2024 (08 Apr Shift 1)

Identify the major products A and B respectively in the following set of reactions.



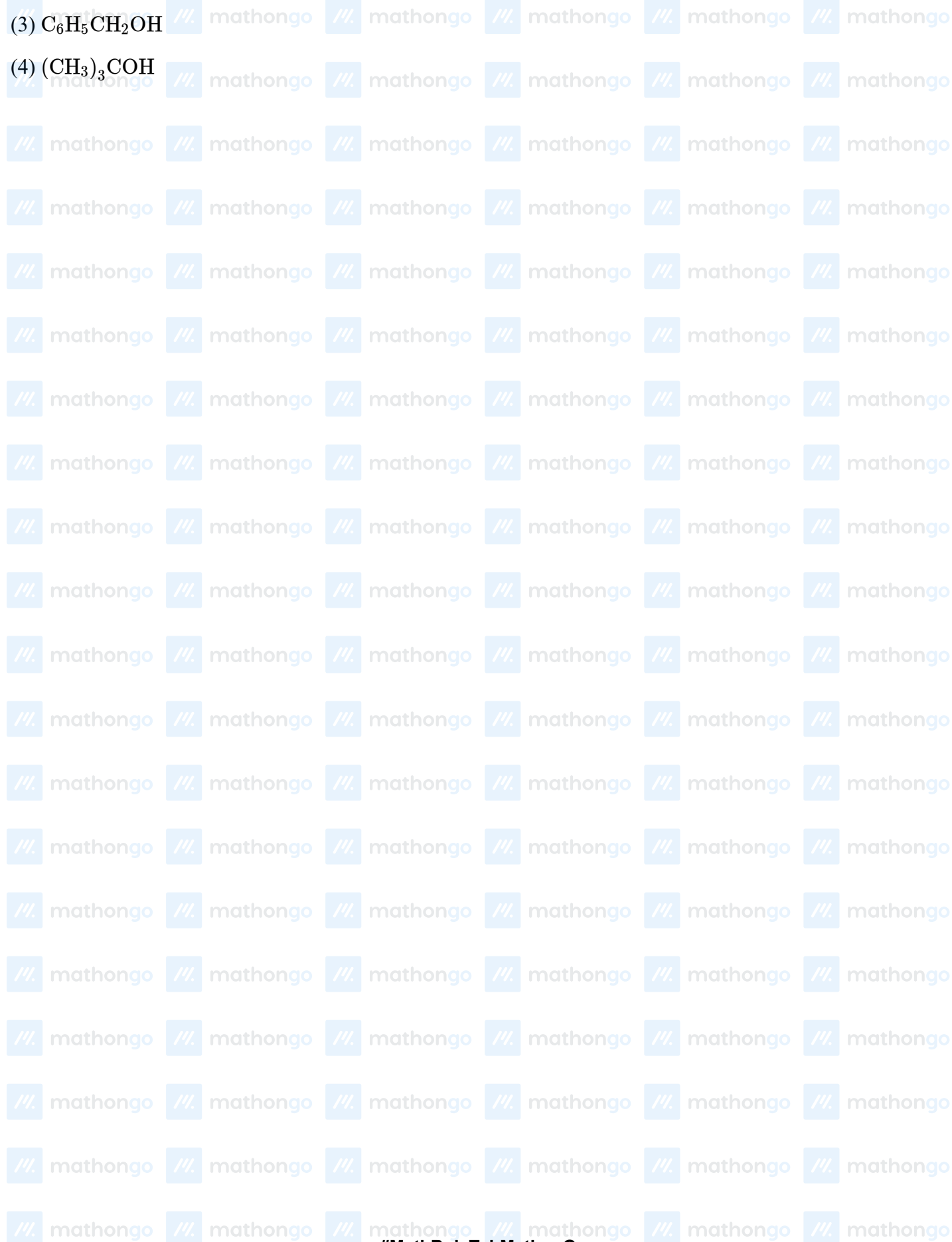
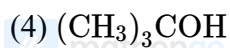
Q13 - 2024 (08 Apr Shift 2)

Which one of the following compounds will readily react with dilute NaOH ?



Questions

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Questions

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Answer Key

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

Q1 (3) mathongo /// matho **Q2** (3) /// mathongo **Q3** (1) mathongo /// mc **Q4** (14) /// mathongo

Q5 (4) mathongo /// matho **Q6** (4) /// mathongo **Q7** (1) mathongo /// mc **Q8** (1) o /// mathongo

Q9 (3) mathongo /// matho **Q10** (1) /// mathongo **Q11** (1) mathongo /// mc **Q12** (4) /// mathongo

Q13 (2) thongo /// mathongo /// mathongo /// mathongo /// mathongo /// mathongo

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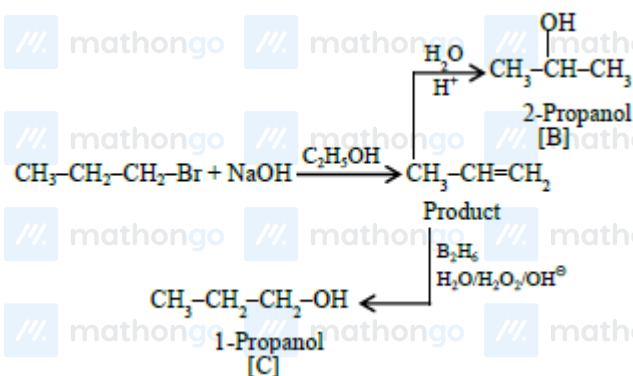
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Solutions

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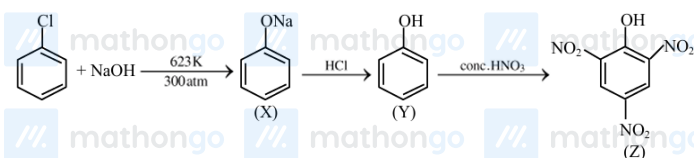
Q1



Q2

Phenol is a highly activated compound which can undergo bromination directly with Bromine without any lewis acid.

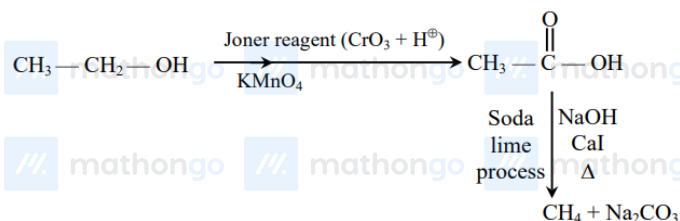
Q3



Q4

Picric acid is prepared by treating phenol first with concentrated sulphuric acid which converts it to phenol-2,4-disulphonic acid and then with concentrated nitric acid to get 2, 4, 6 trinitrophenol.

Q5



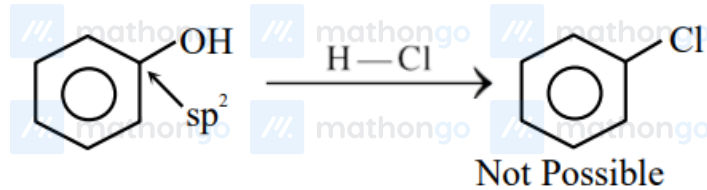
Q6

Do you want to practice these PYQs along with PYQs of JEE Main from 2002 till 2024?

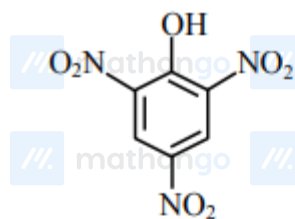
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Solutions

MathonGo

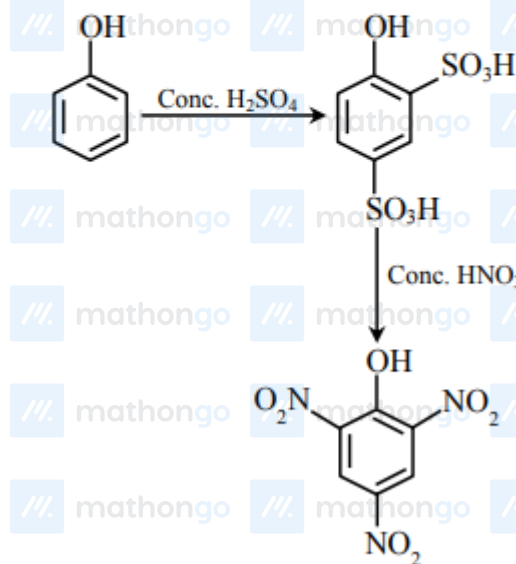


Q7



picric acid

(2, 4, 6 - trinitrophenol)



Picric acid

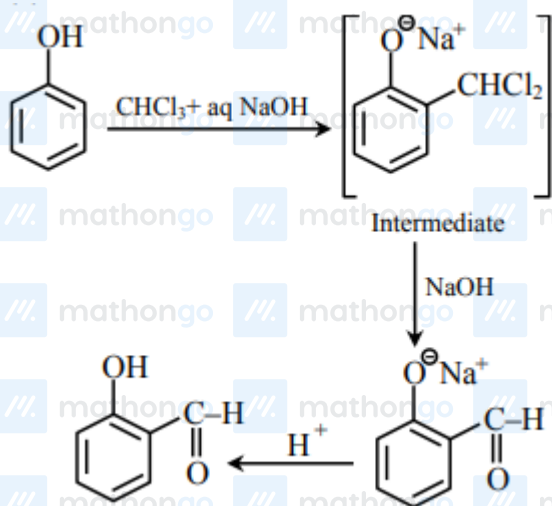
Q8

Do you want to practice these PYQs along with PYQs of JEE Main from 2002 till 2024?

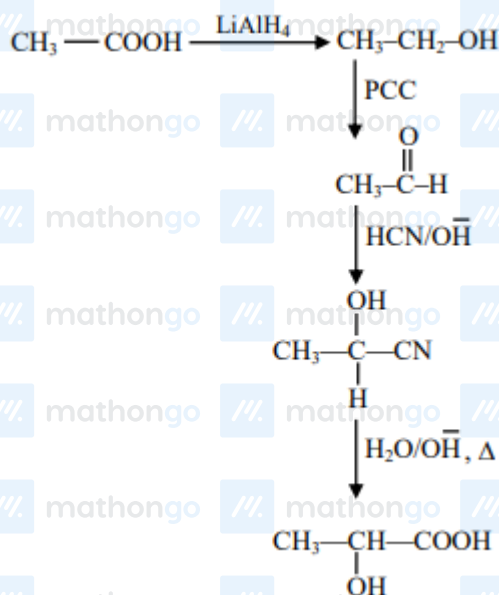
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Solutions

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Q9



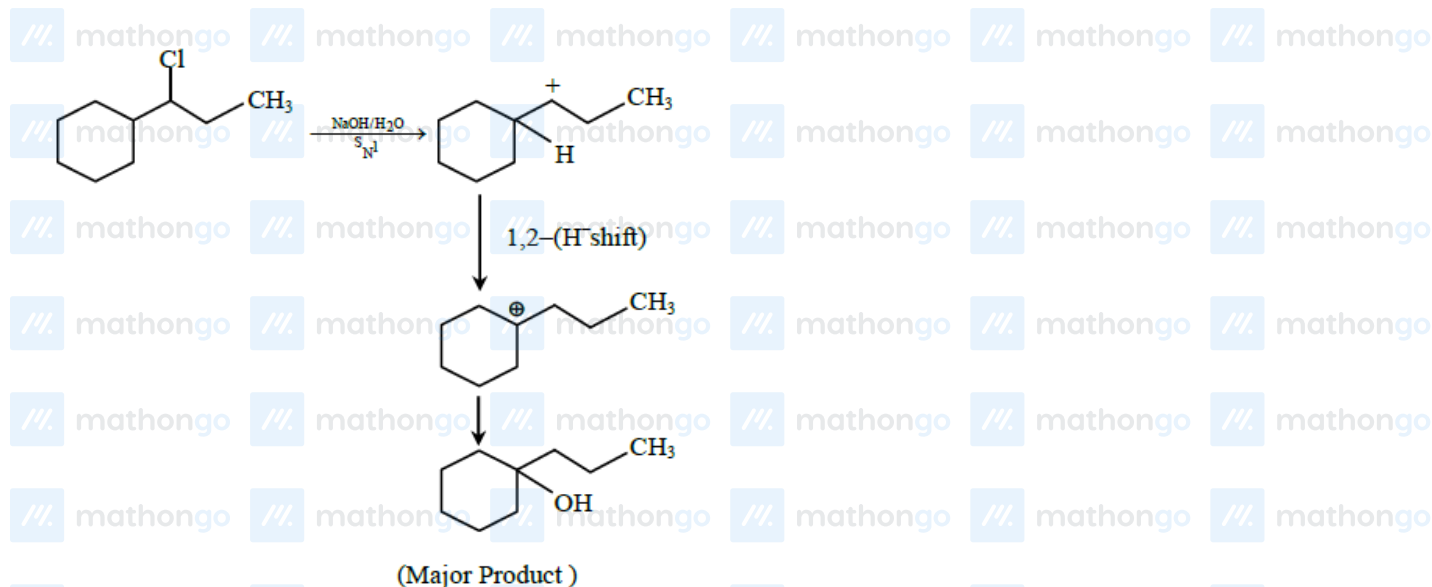
Q10

Do you want to practice these PYQs along with PYQs of JEE Main from 2002 till 2024?

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Solutions

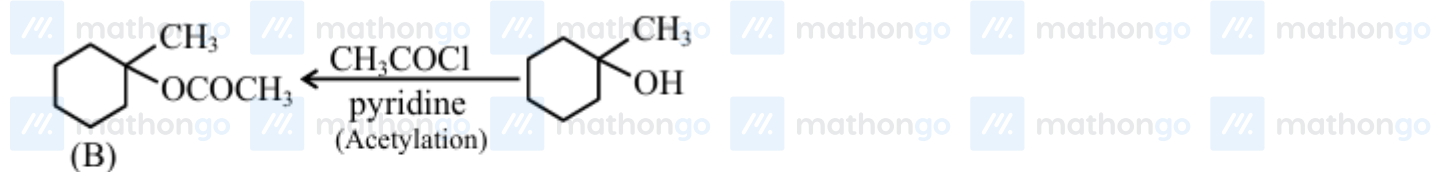
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Q11



Q12



Q13

Do you want to practice these PYQs along with PYQs of JEE Main from 2002 till 2024?

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Solutions

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Do you want to practice these PYQs along with PYQs of JEE Main from 2002 till 2024?

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