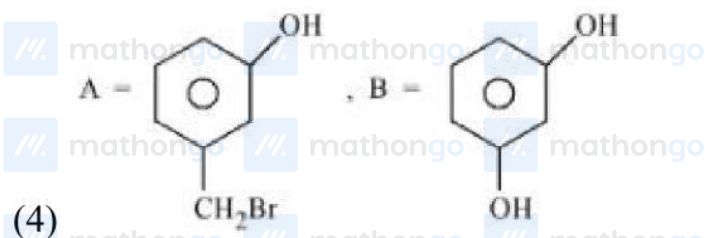
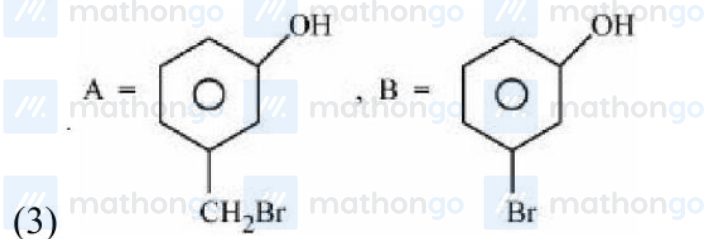
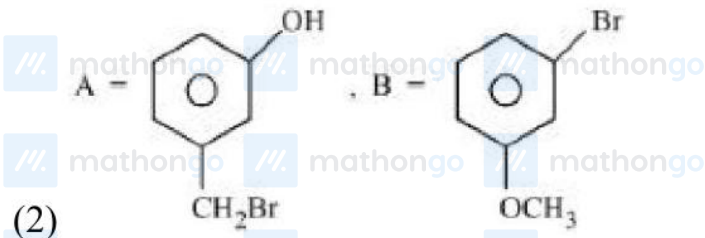
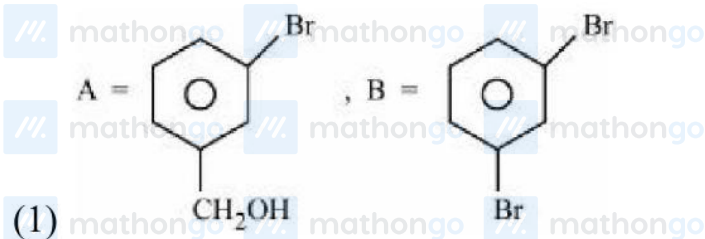
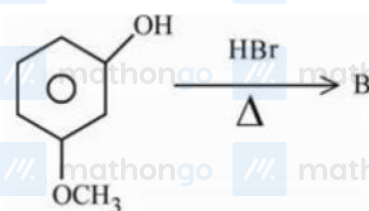
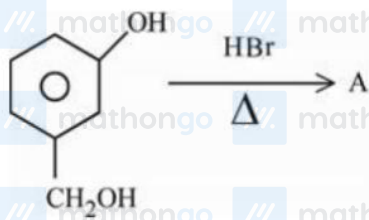


Q1 - 24 January - Shift 1

'A' and 'B' formed in the following set of reactions

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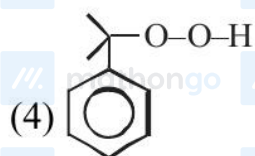
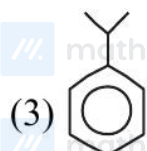
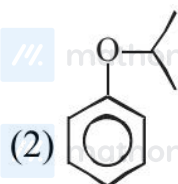
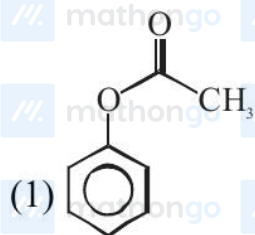
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Q2 - 25 January - Shift 1

In the cumene to phenol preparation in presence of air, the intermediate is

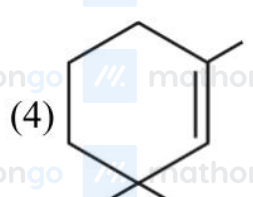
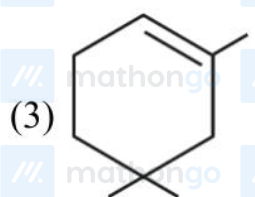
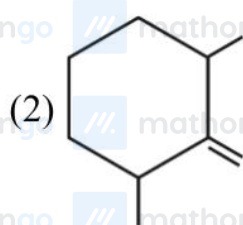
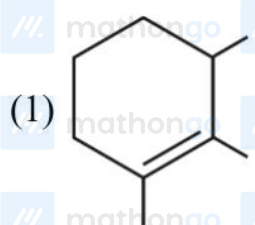
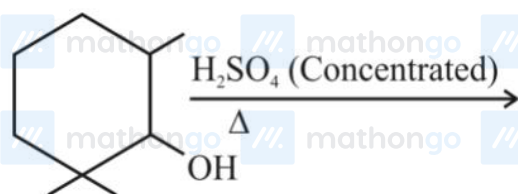
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Q3 - 25 January - Shift 2

Find out the major product from the following reaction.

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Q4 - 25 January - Shift 2

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A :- Butylated hydroxyl anisole when added to butter increases its shelf life.

Reason R :- Butylated hydroxyl anisole is more reactive towards oxygen than food.

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

- (1) Both A and R are correct and R is the correct explanation of A.
- (2) A is correct but R is not correct.
- (3) A is not correct but R is correct.
- (4) Both A and R are correct but R is NOT the correct explanation of A.

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Q5 - 29 January - Shift 1

The increasing order of pK_a for the following phenols is

- (1) 2, 4-Dinitrophenol
- (2) 4 - Nitrophenol
- (3) 2, 4, 5- Trimethylphenol
- (4) Phenol
- (5) 3-Chlorophenol

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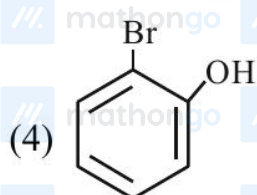
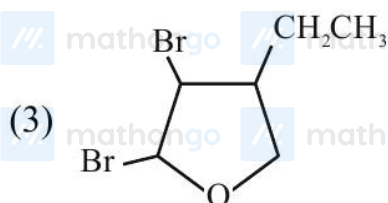
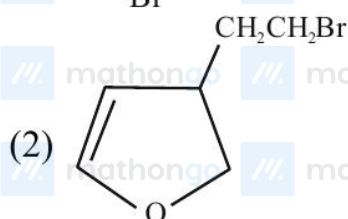
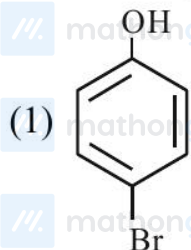
Q6 - 31 January - Shift 1

Questions with Solutions

MathonGo

An organic compound 'A' with empirical formula C_6H_6O gives sooty flame on burning. Its reaction with bromine solution in low polarity solvent results in high yield of B. B is

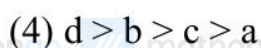
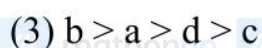
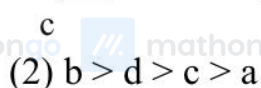
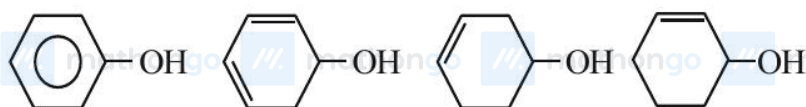
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Q7 - 01 February - Shift 1

Decreasing order of dehydration of the following alcohols is

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Questions with Solutions

MathonGo

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Answer Key

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(As per Official NTA Key released on 2 Feb)

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Q1 (4)

Q2 (4)

Q3 (1)

Q4 (1)

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Q5 (2)

Q6 (1)

Q7 (2)

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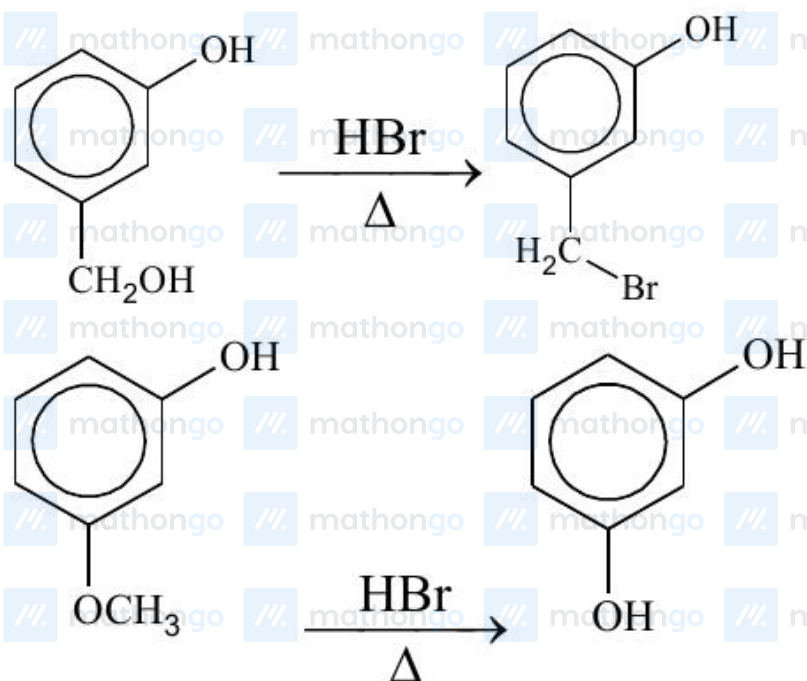
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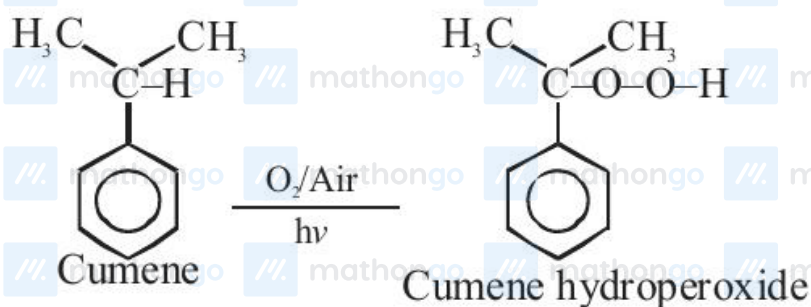
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To practice more chapter-wise JEE Main PYQs, [click here to download the MARKS app](#) from Playstore

Q1 (4)

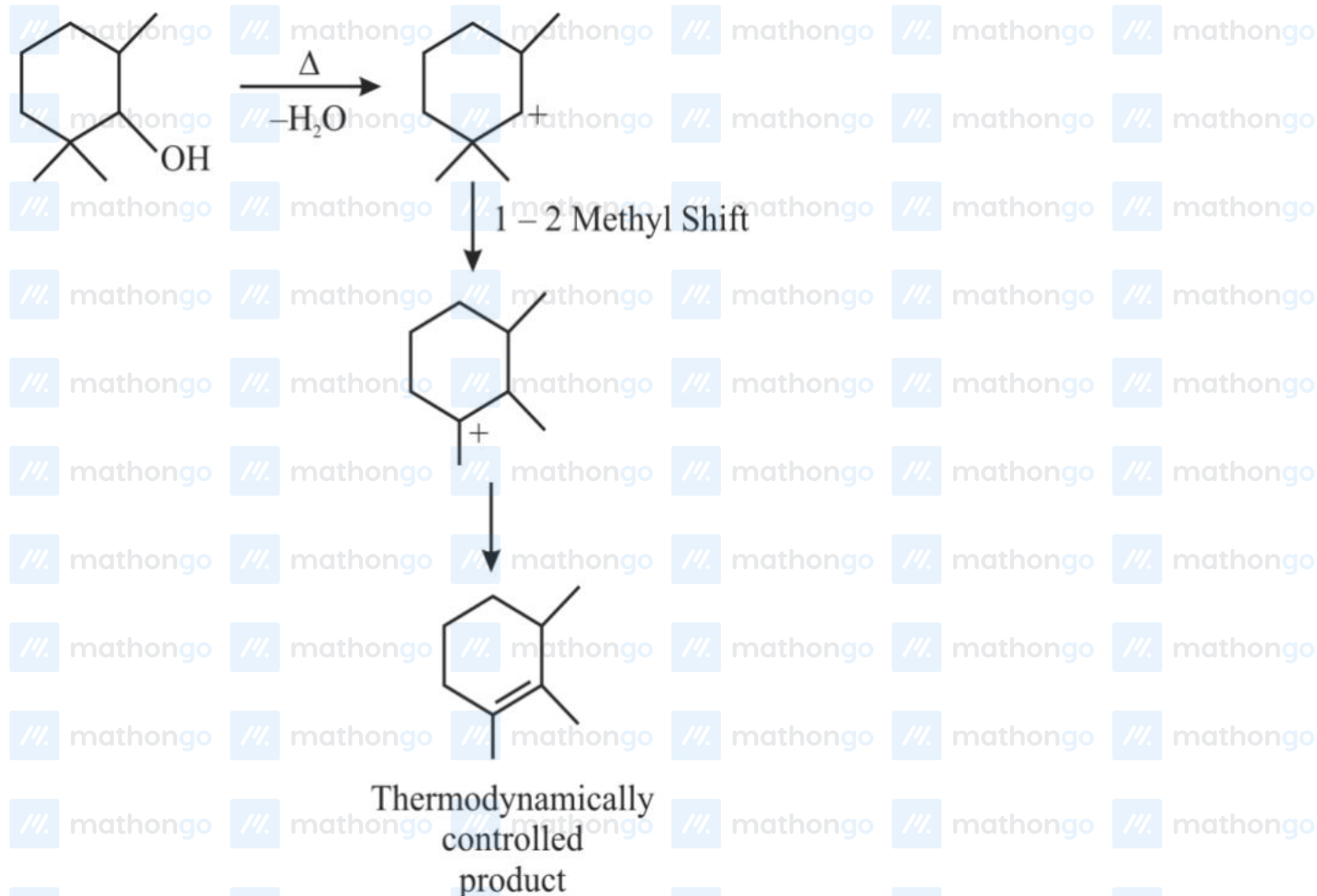


Q2 (4)



Q3 (1)

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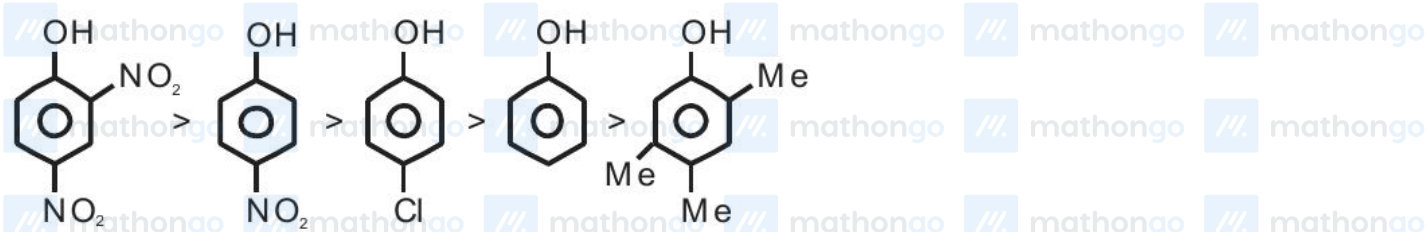


Q4 (1)

Butylated hydroxyl anisole is an antioxidant

Q5 (2)

Order of acidity for following phenol is

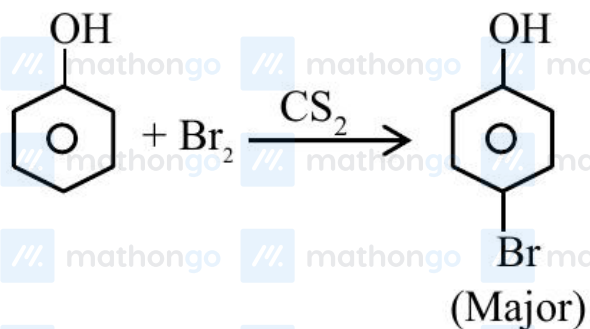


- M and - I increases acidity

Q6 (1)

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Aromatic compounds burns with sooty flame



Q7 (2)

Dehydration of alcohol is directly proportional to the stability of carbocation.