



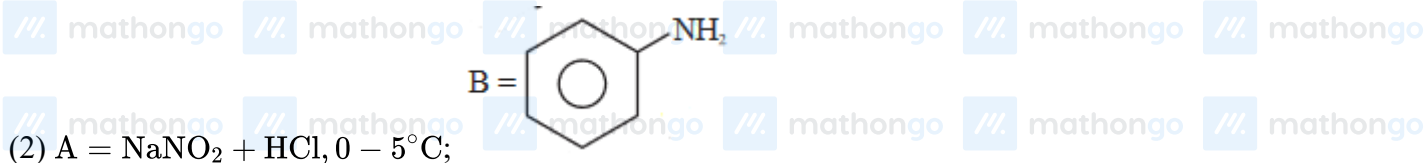
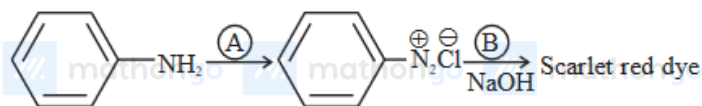
## Questions with Answer Keys

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## Q4 - 2024 (30 Jan Shift 1)

Following is a confirmatory test for aromatic primary amines. Identify reagent (A) and (B)

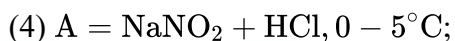
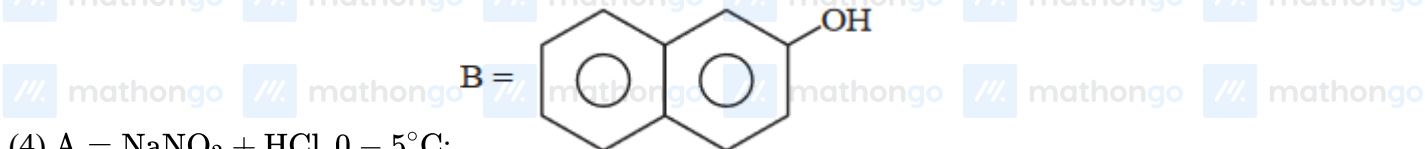
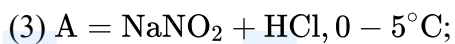
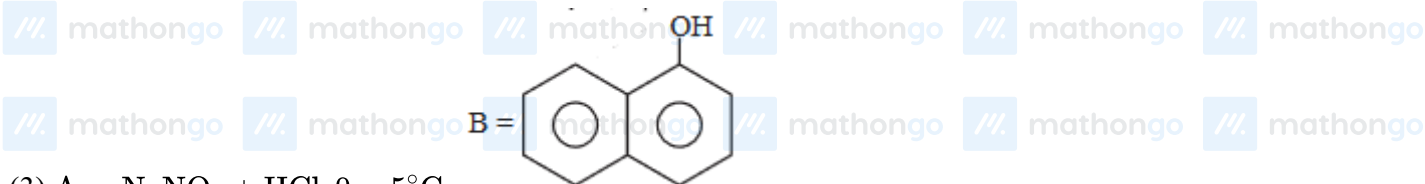


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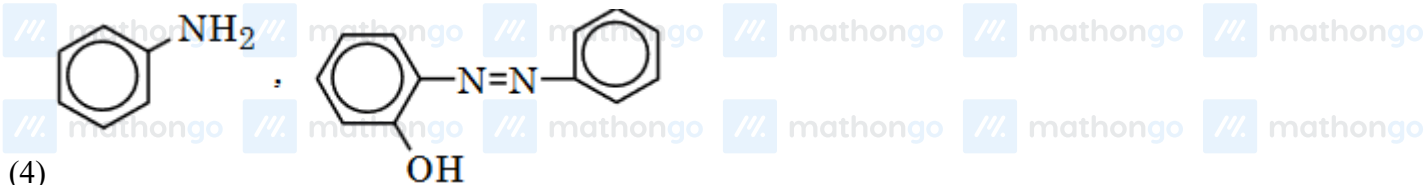
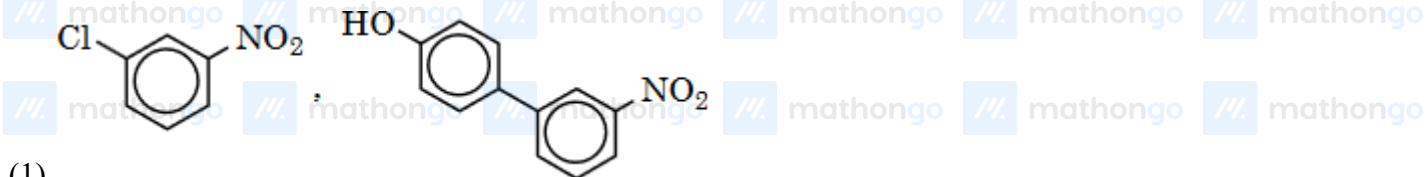
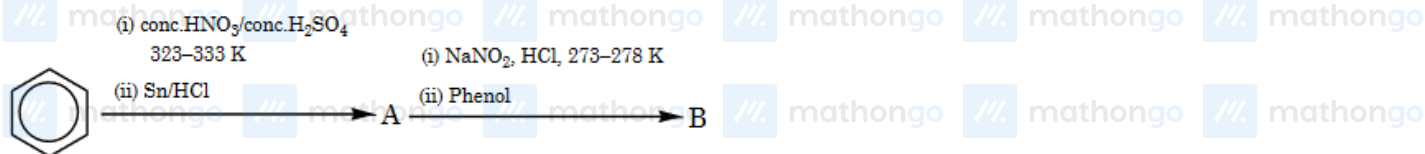
## Questions with Answer Keys

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## Q5 - 2024 (30 Jan Shift 2)

The products A and B formed in the following reaction scheme are respectively



## Q6 - 2024 (31 Jan Shift 2)

Given below are two statements :

Statement I: Aniline reacts with con.  $\text{H}_2\text{SO}_4$  followed by heating at  $453 - 473 \text{ K}$  gives p-aminobenzene

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## Questions with Answer Keys

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sulphonic acid, which gives blood red colour in the 'Lassaigne's test'.

Statement II: In Friedel - Craft's alkylation and acylation reactions, aniline forms salt with the  $\text{AlCl}_3$  catalyst.

Due to this, nitrogen of aniline acquires a positive charge and acts as deactivating group.

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

(1) Statement I is false but statement II is true

(2) Both statement I and statement II are false

(3) Statement I is true but statement II is false

(4) Both statement I and statement II are true

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## Questions with Answer Keys

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**Answer Key**

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**Q1 (5)** mathongo /// ma **Q2 (2)** /// mathongo **Q3 (3)** mathongo /// mc **Q4 (4)** mathongo

**Q5 (3)** mathongo /// ma **Q6 (4)** /// mathongo /// mathongo /// mathongo /// mathongo

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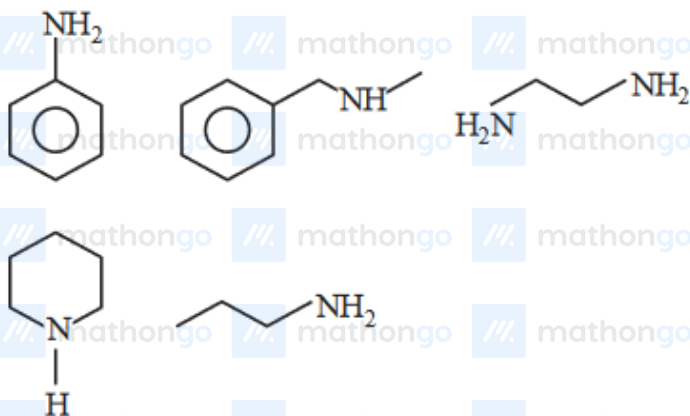
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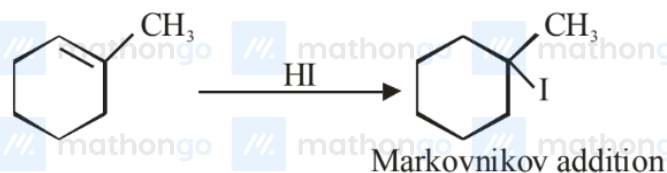
## Solutions

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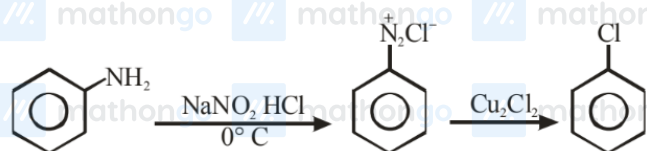
Q1



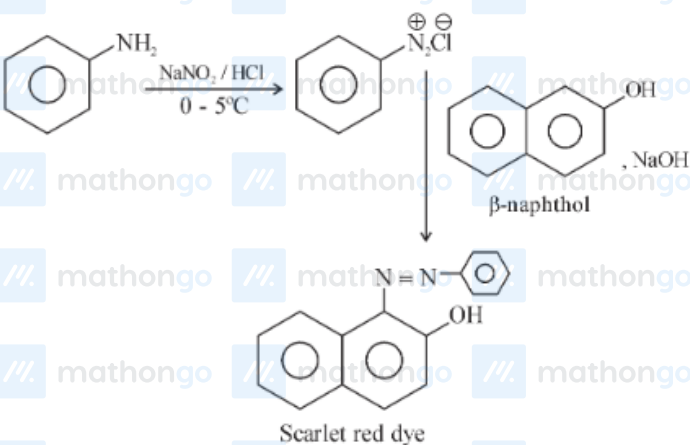
Q2



Q3



Q4



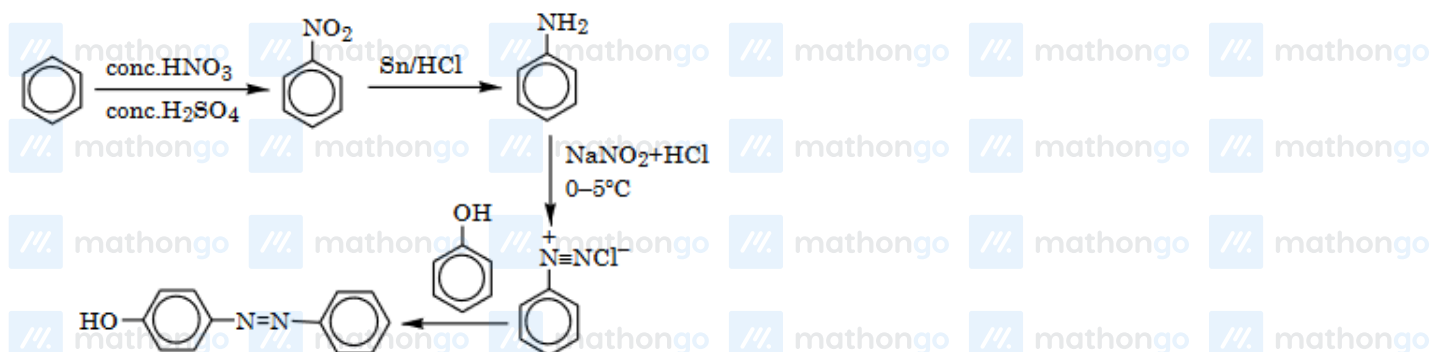
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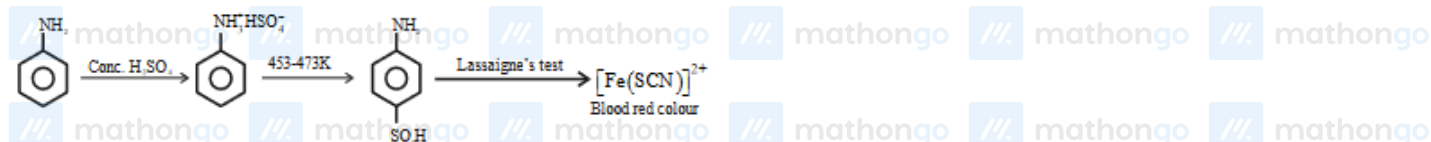
## Solutions

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Q5



Q6



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