

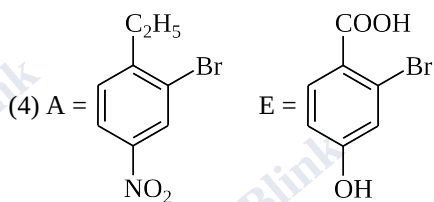
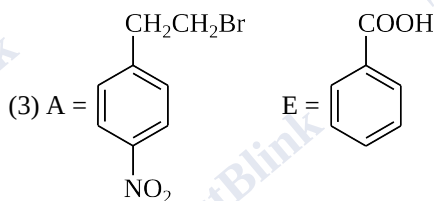
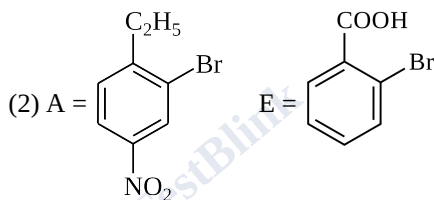
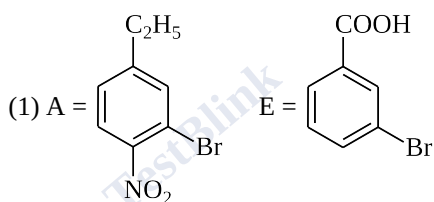
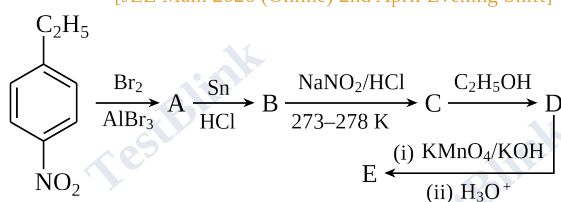
JEE MAIN AMINES — SYNTHETIC APPLICATIONS OF AMINES AND DIAZONIUM SALTS — PYQS

Max. Marks: 20
Questions: 5

Section A (MCQ) — 5 questions

Q.1 Identify compounds A and E in the following reaction sequence.

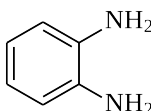
[JEE Main 2026 (Online) 2nd April Evening Shift]

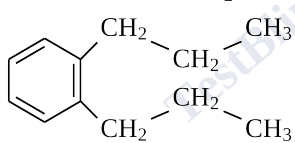


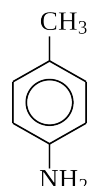
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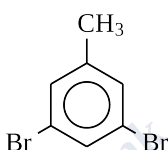


Q.2 Given below are two statements :

Statement-I:  can be synthesized

from  using simpler reagents in the order i) Acidic KMnO_4 , ii) Ammonia, iii) Bromine and alkali

Statement-II:  can be converted into

 using reagents in the order i)

Bromine- H_2O ii) NaNO_2/HCl ($0 - 5^\circ\text{C}$) (iii) Aq. H_3PO_2 .

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

[JEE Main 2026 (Online) 23rd January Evening Shift]

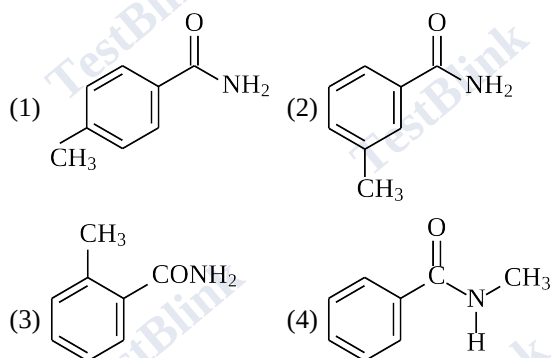
- (1) Both Statement-I and Statement-II are true
- (2) Statement-I is false but Statement-II is true
- (3) Statement-I is true but Statement-II is false
- (4) Both Statement-I and Statement-II are false

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Q.3 'A' is a neutral organic compound (M.F. : $\text{C}_8\text{H}_9\text{ON}$). On treatment with aqueous $\text{Br}_2/\text{HO}^\ominus$, 'A' forms a compound 'B' which is soluble in dilute acid. 'B' on treatment with aqueous NaNO_2/HCl ($0-5^\circ\text{C}$) produces a compound 'C' which on treatment with CuCN/NaCN produces 'D'. Hydrolysis of 'D' produces 'E' which is also obtainable from the hydrolysis of 'A'. 'E' on treatment with acidified KMnO_4 produces 'F'. 'F' contains two different types of hydrogen atoms. The structure of 'A' is

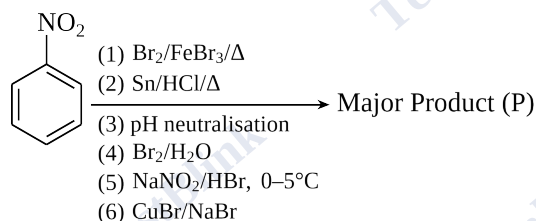
[JEE Main 2026 (Online) 22nd January Morning Shift]



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Q.4



Consider the above sequence of reactions. The number of bromine atom(s) in the final product (P) will be :

[JEE Main 2026 (Online) 21st January Evening Shift]

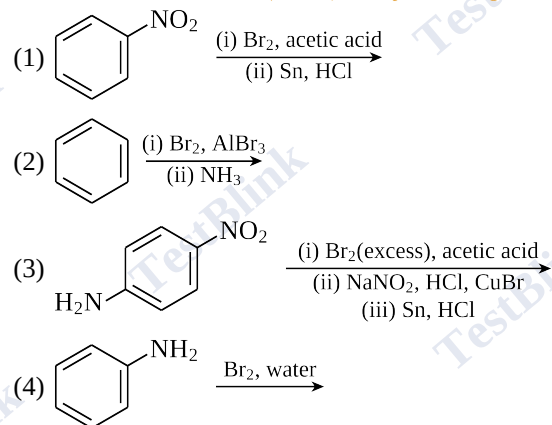
- (1) 6 (2) 5 (3) 1 (4) 3

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Q.5 The sequence from the following that would result in giving predominantly 3,4,5-Tribromoaniline is :

[JEE Main 2025 (Online) 3rd April Evening Shift]



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ANSWER KEY

Ques.	1	2	3	4	5						
Ans.	2	1	1	2	3						