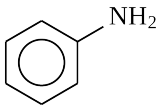
PYQSide

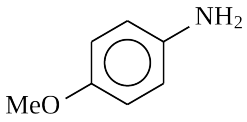
JEE MAIN AMINES — BASICITY OF AMINES — PYQS

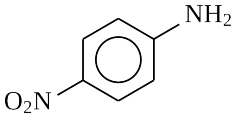
Max. Marks: 12 **Questions:** 3

Section A (MCQ)

Q.1 The descending order of basicity of the following amines is :

A. 

B. 

C. 

D. CH_3NH_2

E. $(CH_3)_2NH$

Choose the **correct** answer from the options given below : [JEE Main 2025 (Online) 7th April Evening Shift]

(1) E > A > D > C > B (2) E > D > A > B > C

(3) E > D > B > A > C (4) B > E > D > A > C

Scan or tap for the full solution

Q.2 The correct order of basic nature in aqueous solution for the bases NH_3, $H_2N–NH_2$, $CH_3CH_2NH_2$, $(CH_3CH_2)_2NH$ and $(CH_3CH_2)_3N$ is : [JEE Main 2025 (Online) 2nd April Morning Shift]

(1) $NH_3 < H_2N–NH_2 < (CH_3CH_2)_3N < CH_3CH_2NH_2 < (CH_3CH_2)_2NH$

(2) $H_2N–NH_2 < NH_3 < (CH_3CH_2)_3N < CH_3CH_2NH_2 < (CH_3CH_2)_2NH$

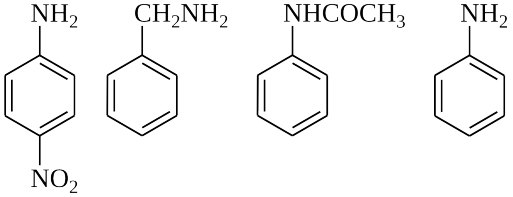
(3) $H_2N–NH_2 < NH_3 < CH_3CH_2NH_2 < (CH_3CH_2)_3N < (CH_3CH_2)_2NH$

(4) $NH_3 < H_2N–NH_2 < CH_3CH_2NH_2 < (CH_3CH_2)_2NH < (CH_3CH_2)_3N$

Scan or tap for the full solution

Section B (Numerical)

Q.3 Given below are some nitrogen containing compounds :



Each of them is treated with HCl separately. 1.0 g of the most basic compound will consume _____ mg of HCl.

(Given molar mass in g mol^{-1} C : 12, H : 1, O : 16, Cl : 35.5)

[JEE Main 2025 (Online) 29th January Morning Shift]

Scan or tap for the full solution

ANSWER KEY

Section A (MCQ)

Ques.	1	2								
Ans.	**3**	**3**								

Section B (Numerical)

Ques.	3						
Ans.	**341**						

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