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NEET AMINES — BASICITY OF AMINES — PYQS

Max. Marks: 28 **Questions:** 7

Section A (MCQ) — 7 questions

Q.1 Given below are two statements:
In light of the above statements, choose the most appropriate answer from the options given below.
Statement-I: Oxidation of p-nitrotoluene with acidic $KMnO_4$ gives an acid that is stronger than benzoic acid.
Statement-II: Reduction of p-nitrotoluene with Sn/HCl followed by neutralization gives an amine that is more basic than aniline.
[RE-NEET (UG) 2026]

(1) Statement-I is incorrect but Statement-II is correct
(2) Both Statement-I and Statement-II are correct
(3) Both Statement-I and Statement-II are incorrect
(4) Statement-I is correct but Statement-II is incorrect

Scan or tap for the full solution

Q.2 The correct order of decreasing basic strength of the given amines is: [NEET (UG) 2025]

(1) N-ethylethanamine > ethanamine > N-methylaniline > benzenamine
(2) benzenamine > ethanamine > N-methylaniline > N-ethylethanamine
(3) N-methylaniline > benzenamine > ethanamine > N-ethylethanamine
(4) N-ethylethanamine > ethanamine > benzenamine > N-methylaniline

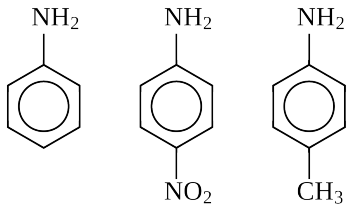
Scan or tap for the full solution

Q.3 The correct order of the basic strength of methyl substituted amines in aqueous solution is : [NEET (UG) 2019]

(1) $(CH_3)_3N > (CH_3)_2NH > CH_3NH_2$
(2) $CH_3NH_2 > (CH_3)_2NH > (CH_3)_3N$
(3) $(CH_3)_2NH > CH_3NH_2 > (CH_3)_3N$
(4) $(CH_3)_3N > CH_3NH_2 > (CH_3)_2NH$

Scan or tap for the full solution

Q.4 The correct increasing order of basic strength for the following compounds is [NEET 2017]



(I) (II) (III)

(1) III < I < II (2) III < II < I
(3) II < I < III (4) II < III < I

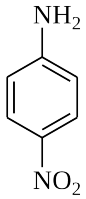
Scan or tap for the full solution

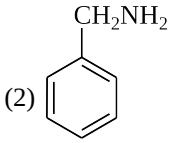
Q.5 The correct statement regarding the basicity of arylamines is [NEET 2016 (Phase 1)]

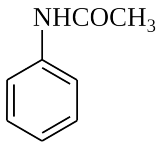
(1) arylamines are generally more basic than alkylamines because of aryl group
(2) arylamines are generally more basic than alkylamines, because the nitrogen atom in arylamines is sp-hybridised
(3) arylamines are generally less basic than alkylamines because the nitrogen lone-pair electrons are delocalised by interaction with the aromatic ring π-electron system
(4) arylamines are generally more basic than alkylamines because the nitrogen lone-pair electrons are not delocalised by interaction with the aromatic ring π-electron system.

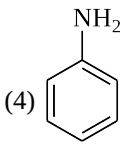
Scan or tap for the full solution

Q.6 Which of the following compounds is most basic? [AIPMT 2011 (Mains)]

(1) 

(2) 

(3) 

(4) 

Scan or tap for the full solution

Q.7 Which of the following is more basic than aniline?

[AIPMT 2006]

(1) Benzylamine (2) Diphenylamine

(3) Triphenylamine (4) p-Nitroaniline

Scan or tap for the full solution

ANSWER KEY

Ques.	1	2	3	4	5	6	7				
Ans.	**2**	**1**	**3**	**3**	**3**	**2**	**1**				