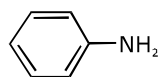
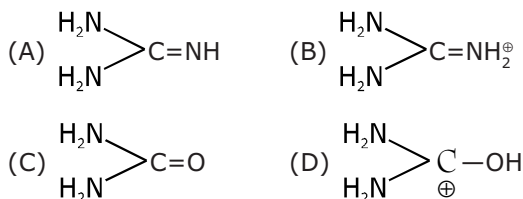
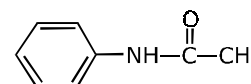


Q.1 Strongest base is :



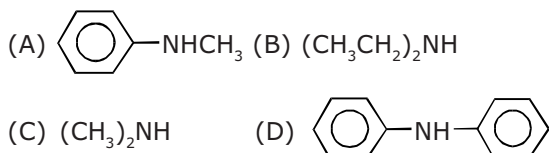
III



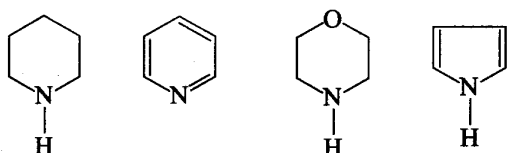
IV

- (A) I > II > III > IV (B) IV > III > II > I
 (C) IV > II > III > I (D) III > II > I > IV
 (E) I > III > II > IV (F) None of these

Q.2 Maximum pK_b value is of :



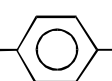
Q.3 In the following compounds :



(I) (II) (III) (IV)

the order of basic nature is :

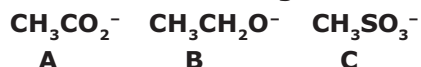
- (A) IV > I > III > II (B) III > I > IV > II
 (C) II > I > III > IV (D) I > III > II > IV

Q.4 pK_b of amines X--NH₂ is in order

when X is :

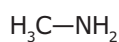
- (A) $CH_3 < H < CF_3 < NO_2$
 (B) $H < CH_3 < CF_3 < NO_2$
 (C) $H < CH_3 < NO_2 < CF_3$
 (D) $CH_3 < H < NO_2 < CF_3$

Q.5 Rank in order of decreasing base strength.

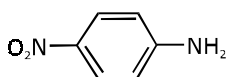


- (A) C > A > B (B) A > B > C
 (C) B > A > C (D) A > C > B

Q.6 Arrange the compounds shown below in order of decreasing basicity (most basic first).



I



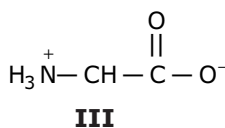
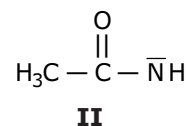
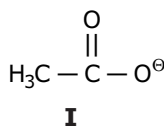
II

Q.7 Using the information in the table below, rank the amines, X, Y and Z, in order of decreasing base strength (most basic first) :

Amine	X	Y	Z
pK_a of conjugate acid	-5	5	10

- (A) X > Y > Z (B) Z > Y > X
 (C) Y > X > Z (D) Z > X > Y

Q.8 Rank the following compounds in order of increasing basicity -



- (A) III < II < I (B) III < I < II
 (C) II < III < I (D) I < II < III

Q.9 What is the order of basicity in gas phase.

R_3N	R_2NH	RNH_2	NH_3
I	II	III	IV

- (A) I > II > III > IV (B) I > III > II > IV
 (C) III > I > IV > II (D) IV > III > II > I

Q.10 What is the order of basicity

$RC\equiv N$	$RCH=NH$	RNH_2
I	II	III

- (A) I > II > III (B) III > II > I
 (C) II > III > I (D) I > III > II

CHEMISTRY IIT JEE (CLASS TEST - 2) ANSWER KEY

Name : Roll No. :

	A	B	C	D		A	B	C	D		A	B	C	D
1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	10	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					