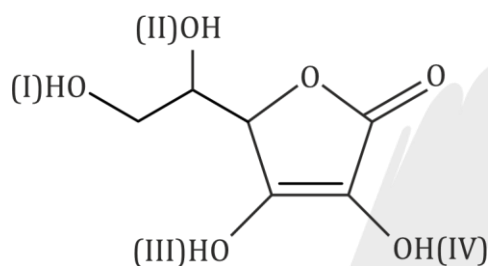


1. Match the pK_a values in Column-II with compounds/ions in Column-I:

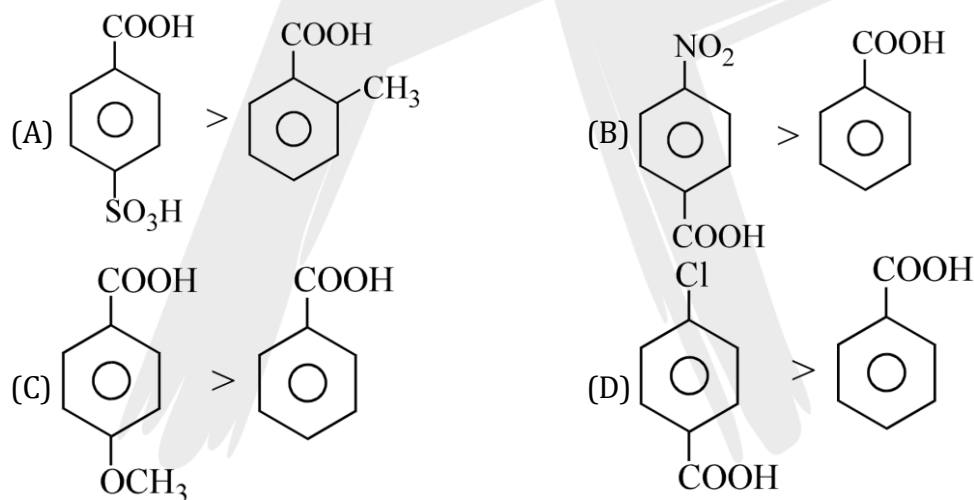
	Column-I		Column-II
(A)	PhOH	(i)	-3
(B)	$\text{CH}_3\text{CO}_2\text{H}$	(ii)	9.95
(C)	CH_3OH	(iii)	4.76
(D)	H_2SO_4	(iv)	15.5

2. Most Acidic Hydrogen in the given compound is :-

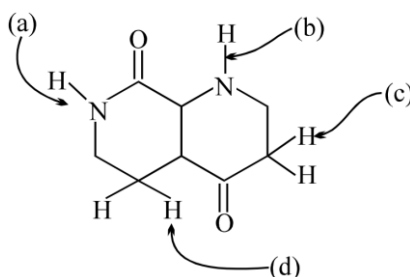


- (A) Only I (B) Only II (C) Only III (D) Only IV

3. Which order of acid strength is(are) incorrect:

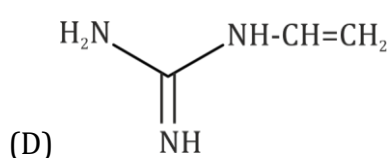
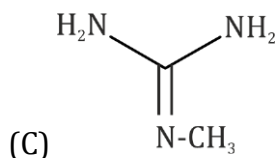
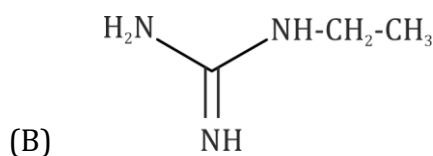
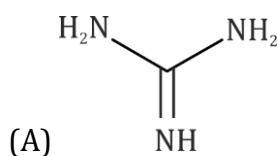


4. Correct order of acidic strength in given compound is:

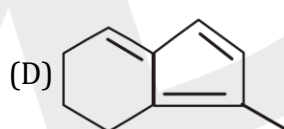
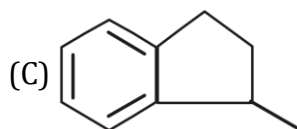
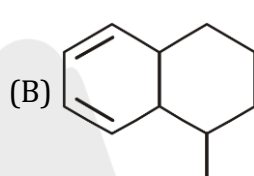
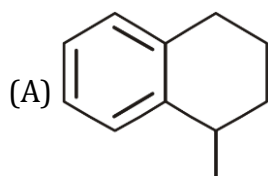


- (A) $b > d > a > c$ (B) $a > d > b > c$ (C) $a > b > c > d$ (D) $b > c > a > d$

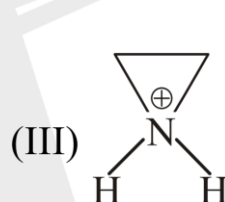
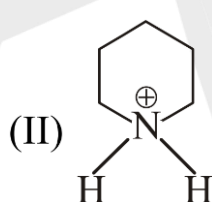
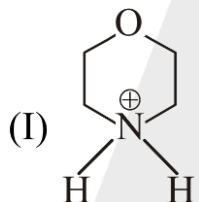
5. Most Basic nitrogen atoms among the given compound is



6. Which of the following compound is most acidic in nature:



7. Which of the following is the correct order of acidic strength:



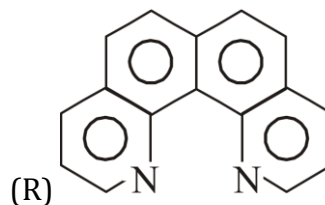
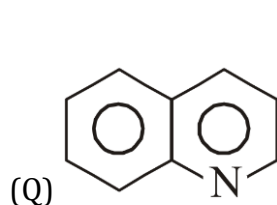
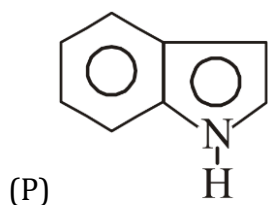
(A) III > I > II

(B) I > II > III

(C) II > I > III

(D) III > II > I

8. Which of the following is the correct order of basic nature:



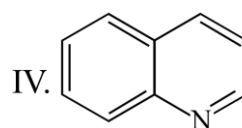
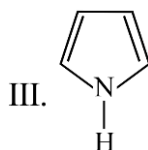
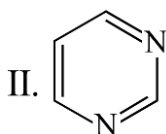
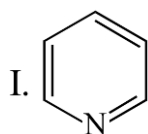
(A) Q > R > P

(B) R > Q > P

(C) R > P > Q

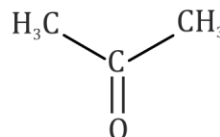
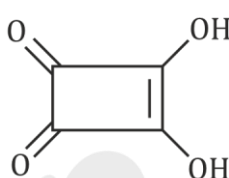
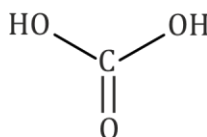
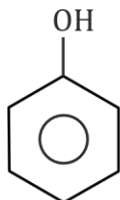
(D) Q > P > R

9. Arrange the following in the increasing order of their basic strength:



(A) $I < II < III < IV$ (B) $IV < III < II < I$ (C) $IV < I < II < III$ (D) $III < II < IV < I$

10. Which of the following order of Acidic Strength is correct for the given compound is:



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

ANSWER KEY

- | | | | | | | | | | |
|----|--------------------------|----|-----|----|-----|-----|-----|----|-----|
| 1. | (A:III, B:II, C:I, D:IV) | | | | | | | | |
| 2. | (C) | 3. | (C) | 4. | (C) | 5. | (B) | 6. | (D) |
| 7. | (B) | 8. | (B) | 9. | (D) | 10. | (B) | | |

A