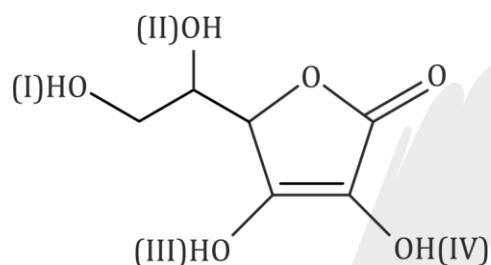


## DPP-03

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

	<b>Column-I</b>		<b>Column-II</b>
(A)	PhOH	(i)	-3
(B)	$\text{CH}_3\text{CO}_2\text{H}$	(ii)	9.95
(C)	$\text{CH}_3\text{OH}$	(iii)	4.76
(D)	$\text{H}_2\text{SO}_4$	(iv)	15.5

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



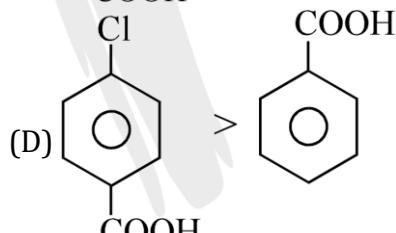
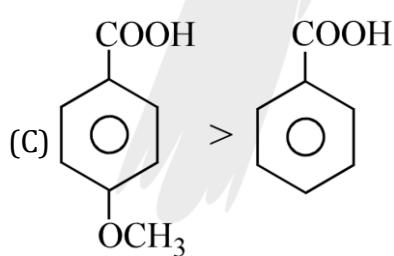
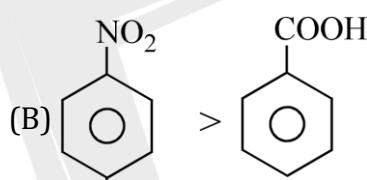
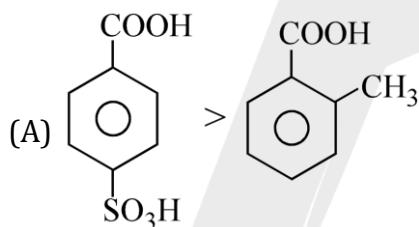
(A) Only I

(B) Only II

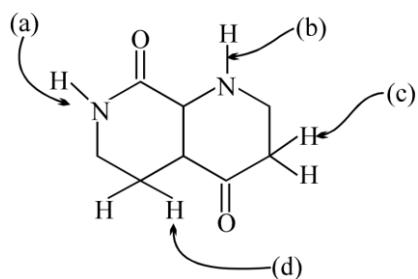
(C) Only III

(D) Only IV

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



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



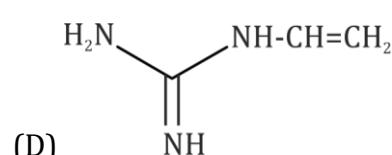
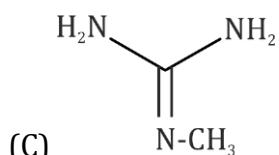
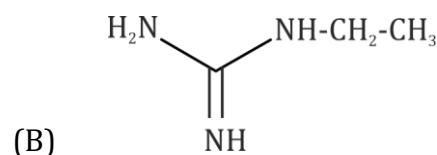
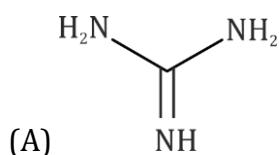
(A) b &gt; d &gt; a &gt; c

(B) a &gt; d &gt; b &gt; c

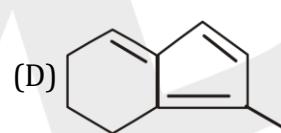
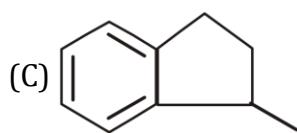
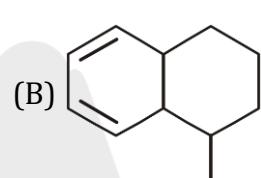
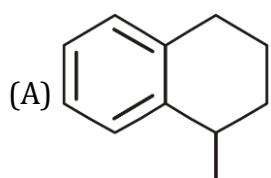
(C) a &gt; b &gt; c &gt; d

(D) b &gt; c &gt; a &gt; d

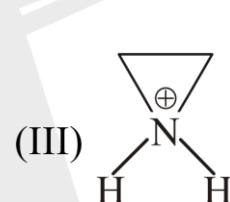
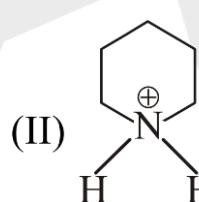
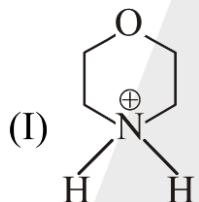
5. Most Basic nitrogen atoms among the given compound is



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



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



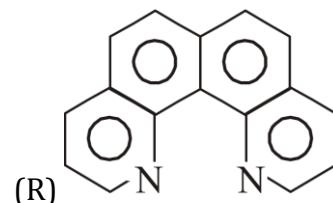
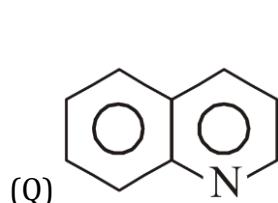
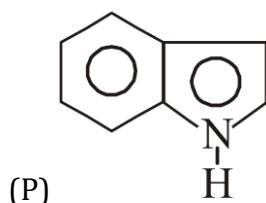
(A) III > I > II

(B) I > II > III

(C) II > I > III

(D) III > II > I

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



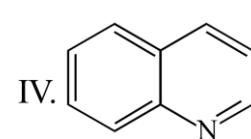
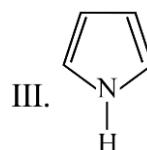
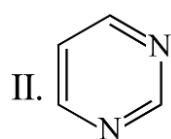
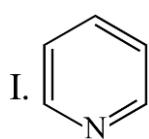
(A) Q > R > P

(B) R > Q > P

(C) R > P > Q

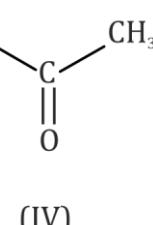
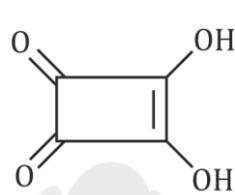
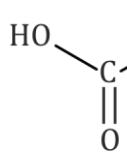
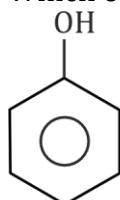
(D) Q > P > R

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) | 4. (C) | 5. (B) | 6. (D) |        |         |
| 2. (C)                      | 3. (C) | 7. (B) | 8. (B) | 9. (D) | 10. (B) |

