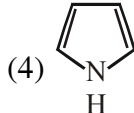
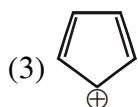
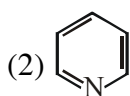
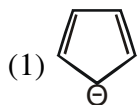
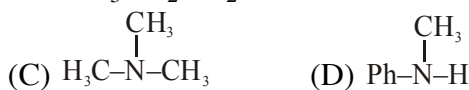
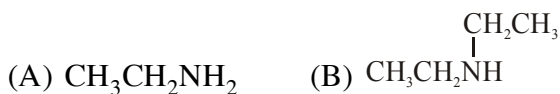


GOC

1. निम्न में से कौनसा यौगिक ऐरोमैटिक नहीं है ?



2. निम्नलिखित यौगिकों में क्षारकता का बढ़ता हुआ क्रम है :



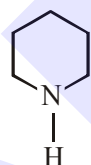
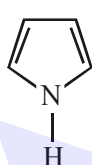
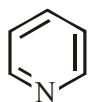
(1) (D) < (C) < (A) < (B) (2) (A) < (B) < (D) < (C)

(3) (A) < (B) < (C) < (D) (4) (D) < (C) < (B) < (A)

3. निम्न में से कौनसा प्रबलतम अम्ल है ?



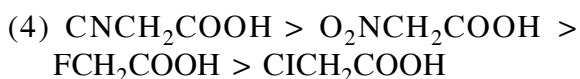
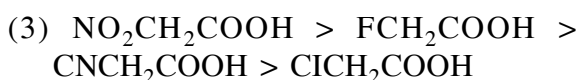
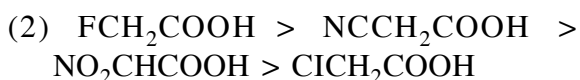
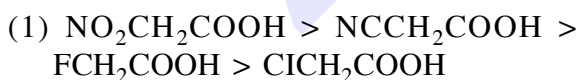
4. निम्न ऐमीनों को क्षारीयता के घटते हुए क्रम में व्यवस्थित कीजिये :



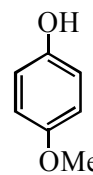
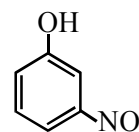
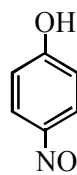
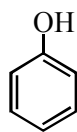
(1) I > II > III (2) III > II > I

(3) I > III > II (4) III > I > II

5. अम्ल सामर्थ्य का घटता हुआ सही क्रम है :-



6. निम्न यौगिकों के pKa का बढ़ता हुआ क्रम है :



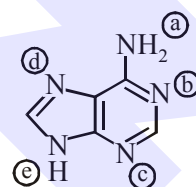
(1) D < A < C < B

(2) B < C < D < A

(3) C < B < A < D

(4) B < C < A < D

7. निम्न यौगिक में,



प्रोटोनीकरण के लिए अनुकूल स्थल है/हैं :-

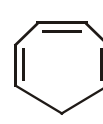
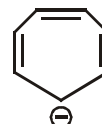
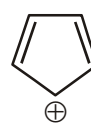
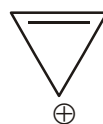
(1) (b), (c) तथा (d)

(2) (a)

(3) (a) तथा (e)

(4) (a) तथा (d)

8. निम्नलिखित में से कौन सा/से यौगिक ऐरोमैटिक नहीं है/हैं ?



(1) C तथा D

(2) B, C तथा D

(3) A तथा C

(4) B

9. $\text{CH}\equiv\text{CH}$, $\text{CH}_3-\text{C}\equiv\text{CH}$ तथा $\text{CH}_2=\text{CH}_2$

यौगिकों के अम्लीय सामर्थ्य का सही क्रम है :

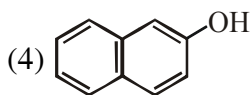
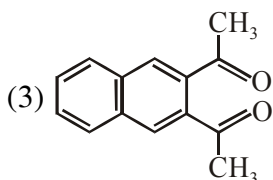
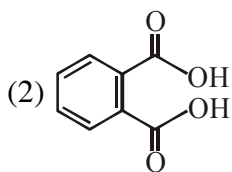
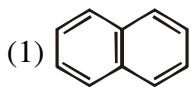
(1) $\text{CH}\equiv\text{CH} > \text{CH}_2=\text{CH}_2 > \text{CH}_3-\text{C}\equiv\text{CH}$

(2) $\text{HC}\equiv\text{CH} > \text{CH}_3-\text{C}\equiv\text{CH} > \text{CH}_2=\text{CH}_2$

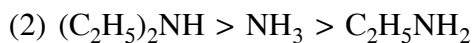
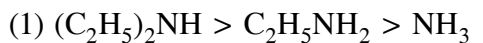
(3) $\text{CH}_3-\text{C}\equiv\text{CH} > \text{CH}_2=\text{CH}_2 > \text{HC}\equiv\text{CH}$

(4) $\text{CH}_3-\text{C}\equiv\text{CH} > \text{CH}\equiv\text{CH} > \text{CH}_2=\text{CH}_2$

10. निम्न चार एरोमैटिक यौगिकों में से किसका गलनांक निम्नतम होगा ?

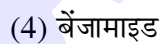
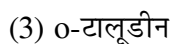
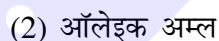
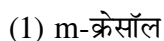


11. निम्नलिखित यौगिकों में, क्षारीय सामर्थ्य का घटता क्रम होगा-

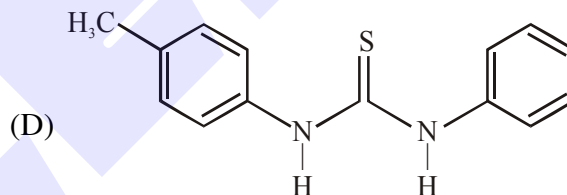
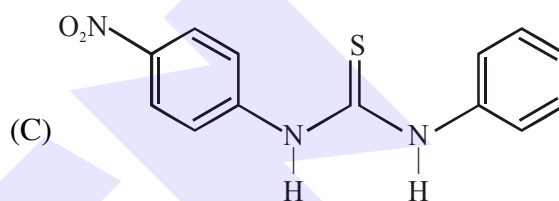
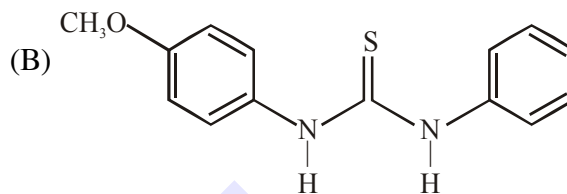
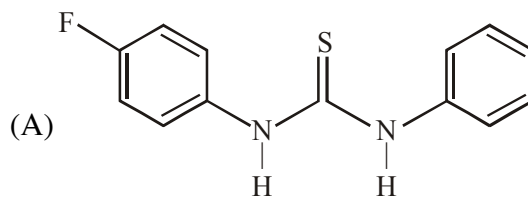


12. एक कार्बनिक यौगिक 'X' जो निम्न विलेयता की रूपरेखा प्रदर्शित करता है, होगा -

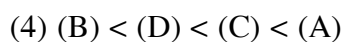
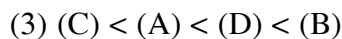
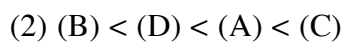
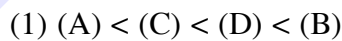
'x'	जल	अविलेय
	5% HCl	अविलेय
	10% NaOH	विलेय
	10% NaHCO ₃	अविलेय



13. निम्न यौगिकों के pK_b का बढ़ता क्रम है :



Options :



SOLUTION

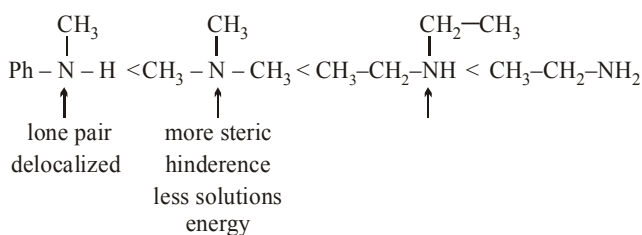
1. Ans. (3)



Do not have $(4n + 2)$ π electron It has $4n$ π electrons

So it is Anti aromatic.

2. Ans. (1)

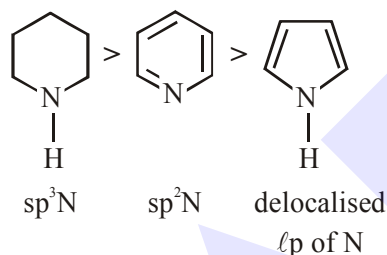


3. Ans. (4)

CN makes amino most stable so answer is $\text{CH}(\text{CN})_3$

4. Ans. (4)

Order of basic strength :

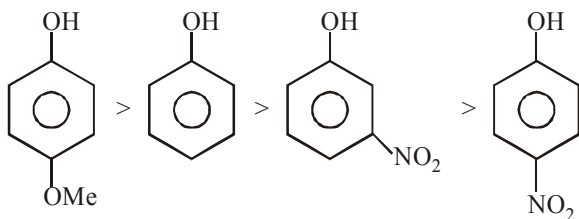


5. Ans. (1)

EWG increase acidic strength
 $\text{NO}_2\text{CH}_2\text{COOH} > \text{NCCH}_2\text{COOH} > \text{FCH}_2\text{COOH} > \text{ClCH}_2\text{COOH}$

6. Ans. (4)

Acidic strength is inversely proportional to pka.



7. Ans. (1)

Localised lone pair e^- .

8. Ans. (2)

out of the given options only is aromatic.

Hence (B), (C) and (D) are not aromatic

9. Ans. (2)

$\text{CH}\equiv\text{CH} > \text{CH}_3-\text{C}\equiv\text{CH} > \text{CH}_2=\text{CH}_2$

(Acidic strength order)

10. Ans. (1)

M.P. of Napthalene $\approx 80^\circ\text{C}$

11. Ans. (1)

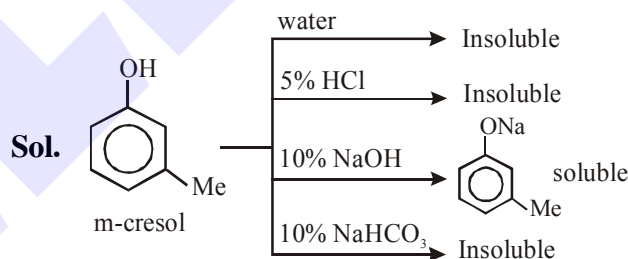
Sol. Basic strength order

$(\text{CH}_3\text{CH}_2)_2\text{NH} > \text{CH}_3\text{CH}_2\text{NH}_2 > \text{NH}_3$

2° amine 1° amine

Correct option : (1)

12. Ans. (1)



* Oleic acid is also soluble in NaHCO_3

* o-toluidine is not soluble in NaOH as well as NaHCO_3

* Benzamide is also not soluble in NaOH & NaHCO_3 .

Correct option : (1)

13. Ans. (2)

Sol. $B < D < A < C$

Basicity $\propto +R \propto \frac{1}{-R}$

$\propto +H \propto \frac{1}{-H}$