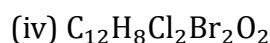
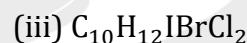
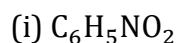


DPP - 01

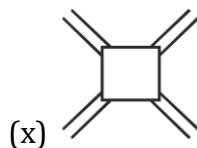
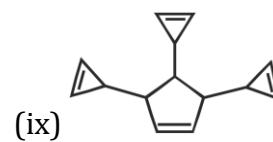
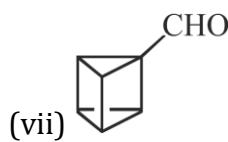
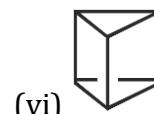
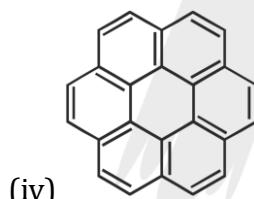
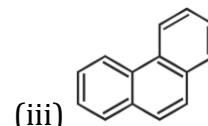
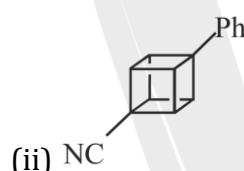
1. Count the number of primary, secondary, tertiary, quarternary carbon as well as hydrogen in given compound:

S.No.	Compound	1°C	2°C	3°C	4°C	1°H	2°H	3°H
(i)								
(ii)								
(iii)								

2. Find the degree of unsaturation for following molecular formulas.

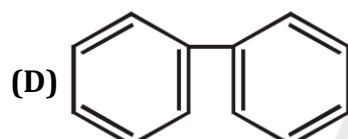
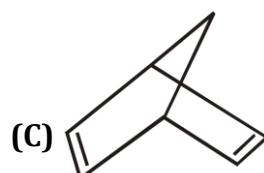
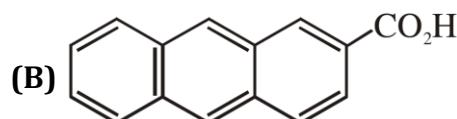
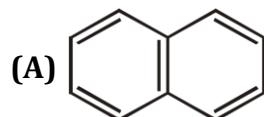


3. Find the degree of unsaturation of the following compounds.



(Organic Chemistry)

4. Match the column

Column I**(General formula)****Column II**

(P) Index of hydrogen deficiency is odd

(Q) Index of hydrogen deficiency is Even

(R) Even number of 2° Carbon

(S) Even number of 3° Carbon

5. Statement 1 : Urea is an organic compound.

Statement 2 : It can be synthesized only by living organism.

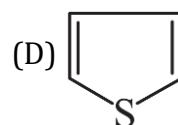
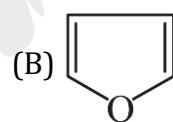
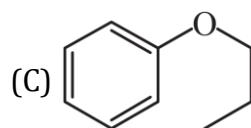
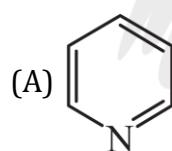
(A) Statement- 1 is true, statement- 2 is true and statement- 2 is correct explanation for statement-1.

(B) Statement-1 is true, statement-2 is true and statement- 2 is NOT the correct explanation for statement-1.

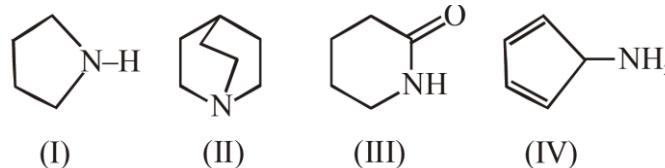
(C) Statement- 1 is true, statement- 2 is false.

(D) Statement-1 is false, statement-2 is true.

6. Compound which is not heterocyclic -



Paragraph for Q. 7 to 8



7. Heterocyclic compound is -

- (A) I & II (B) II & III (C) III & IV (D) I, II, III & IV

8. Compound which is not amine -

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

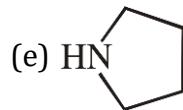
9. Classify the following alcohols as primary, secondary, or tertiary:

- (a) $(CH_3)_3CCH_2OH$ (b) $CH_3CH(OH)CH(CH_3)_2$
 (c) $(CH_3)_2C(OH)CH_2CH_3$

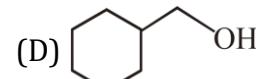
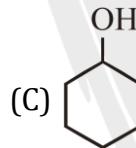
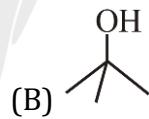
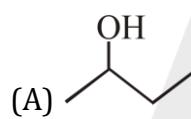


10. Classify the following amines as primary, secondary, or tertiary:

- (a) $CH_3NHCH(CH_3)_2$ (b) $CH_3CH_2CH(CH_3)CH_2NH_2$
 (c) $(CH_3CH_2)_3N$ (d) $(C_6H_5)_2CHCH_2NHCH_3$



11. Which of the following have both 2° alcohol & 2° carbon only.





ANSWER KEY

1.

S.No.	Compound	1°C	2°C	3°C	4°C	1°H	2°H	3°H
(i)		4	4	0	2	12	7	0
(ii)		2	8	2	0	6	10	2
(iii)		2	2	2	0	6	2	0

2.

(i) 5 (ii) 5 (iii) 3 (iv) 7 (v) 3

3. (i) 4 (ii) 11 (iii) 10 (iv) 19 (v) 11 (vi) 4 (vii) 5

(viii) 4 (ix) 8 (x) 5

4. (A) → P,R,S; (B) → P; (C) → Q,S; (D) → Q,R,S

5. C 6. C 7. AB 8. C

9. (a) Primary (b) Secondary (c) Tertiary (d) Tertiary

(e) Secondary

10. (a) Secondary (b) Primary (c) Tertiary (d) Secondary

(e) Secondary

(f) Tertiary

11. C