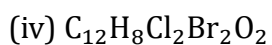
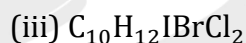
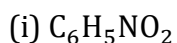


## DPP - 01

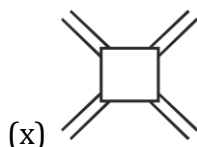
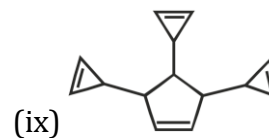
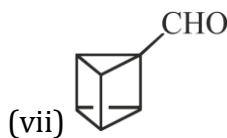
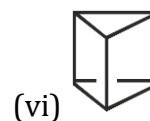
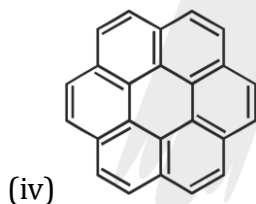
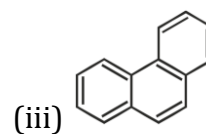
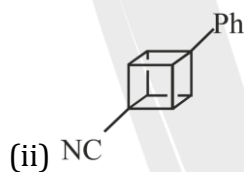
1. Count the number of primary, secondary, tertiary, quarternary carbon as well as hydrogen in given compound:

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.

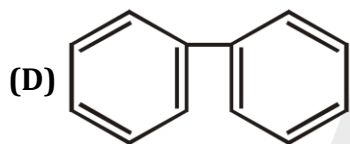
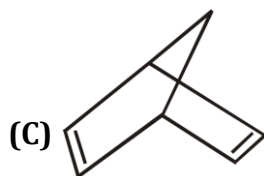
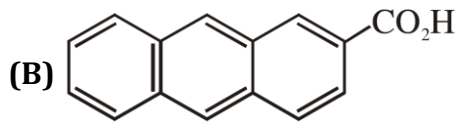
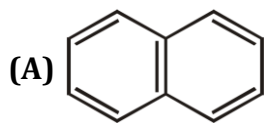


## (Organic Chemistry)

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.

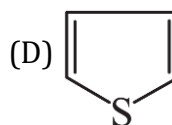
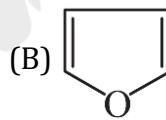
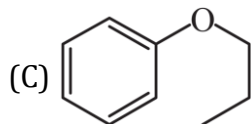
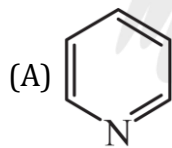
(A) Statement- 1 is true, statement- 2 is true and statement- 2 is correct explanation for statement-1.

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

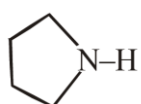
(C) Statement- 1 is true, statement- 2 is false.

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

6. Compound which is not heterocyclic –



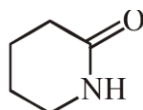
## Paragraph for Q. 7 to 8



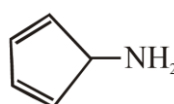
(I)



(II)



(III)



(IV)

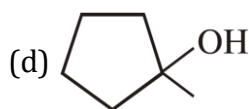
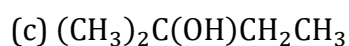
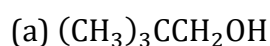
7. Heterocyclic compound is -

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

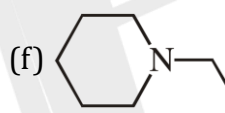
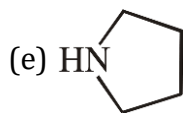
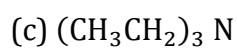
8. Compound which is not amine -

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

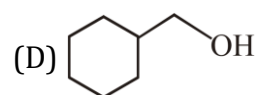
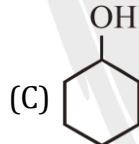
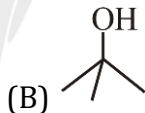
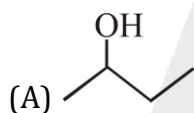
9. Classify the following alcohols as primary, secondary, or tertiary:



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

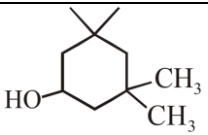
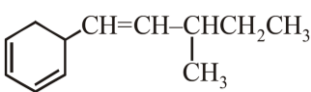
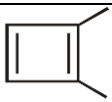


11. Which of the following have both  $2^\circ$  alcohol &  $2^\circ$  carbon only .



## 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