M.M. : 35 **DPP # 02** **TIME : 30 Min.**

1. **Statement 1 :** Urea is an organic compound. **[3]**

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

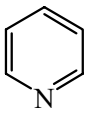
(A) Statement-1 is true, statement-2 is true and statement-2 is correct explanation for statement-1.

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

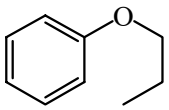
(C) Statement-1 is true, statement-2 is false.

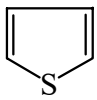
(D) Statement-1 is false, statement-2 is true.

2. Compound which is not heterocyclic - **[3]**

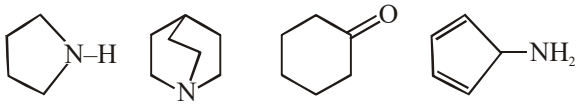
(A) 

(B) 

(C) 

(D) 

Paragraph for Q. 3 to 4



(I) (II) (III) (IV)

3. Heterocyclic compound is – **[3]**

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

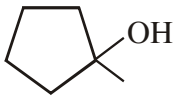
4. Compound which is not amine – **[3]**

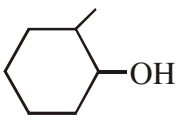
(A) I (B) II (C) III (D) IV

5. Classify the following alcohols as primary, secondary, or tertiary: **[3]**

(a) $(CH_3)_3CCH_2OH$ (b) $CH_3CH(OH)CH(CH_3)_2$

(c) $(CH_3)_2C(OH)CH_2CH_3$

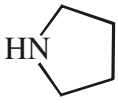
(d) 

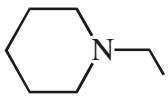
(e) 

6. Classify the following amines as primary, secondary, or tertiary: **[3]**

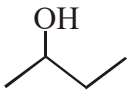
(a) $CH_3NHCH(CH_3)_2$ (b) $CH_3CH_2CH(CH_3)CH_2NH_2$

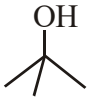
(c) $(CH_3CH_2)_3N$ (d) $(C_6H_5)_2CHCH_2NHCH_3$

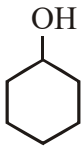
(e) 

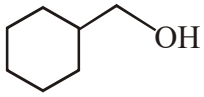
(f) 

7. Which of the following have both 2º alcohol & 2º carbon only . **[3]**

(A) 

(B) 

(C) 

(D) 

8. **Statement 1 :** If number of π bonds in the compound is 3 then its degree of unsaturation must be 3

Because **[3]**

Statement 2 : For one π bond degree of unsaturation is equal to 1

(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.

9. Isooctane contains **[3]**

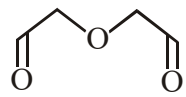
(A) five (1° –C), one (2° –C), two(3° –C) atoms

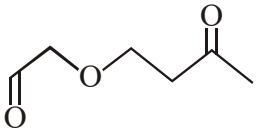
(B) four (1° –C), two (2° –C), one (3° –C) and one (4° –C) atoms

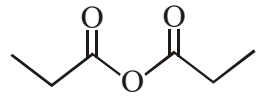
(C) four (1° –C), two (2° –C) and one (3° –C) atoms

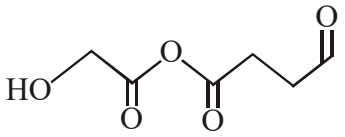
(D) five (1° –C), one (2° –C), one (3° –C) and one (4° –C) atoms

10. Compound having only three different functional group is : **[4]**

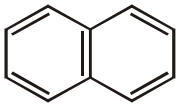
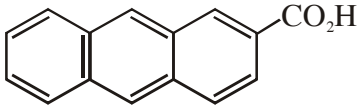
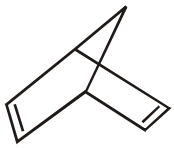
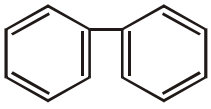
(A) 

(B) 

(C) 

(D) 

11. Match the column **[4]**

Column I (General formula)		**Column II**	
(A)		(P)	Index of hydrogen deficiency is odd
(B)		(Q)	Index of hydrogen deficiency is Even
(C)		(R)	Even number of 2° Carbon
(D)		(S)	Even number of 3° Carbon