DPP – 02

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

Because

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.

2. Isooctane contains

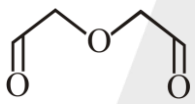
(A) five $(1^\circ - C)$, one $(2^\circ - C)$, two $(3^\circ - C)$ atoms

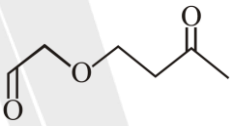
(B) four $(1^\circ - C)$, two $(2^\circ - C)$, one $(3^\circ - C)$ and one $(4^\circ - C)$ atoms

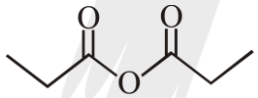
(C) four $(1^\circ - C)$, two $(2^\circ - C)$ and one $(3^\circ - C)$ atoms

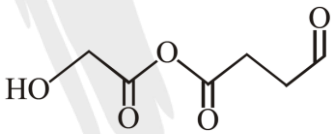
(D) five $(1^\circ - C)$, one $(2^\circ - C)$, one $(3^\circ - C)$ and one $(4^\circ - C)$ atoms

3. Compound having only three different functional group is :

(A) 

(B) 

(C) 

(D) 

4. **Statement 1:** Phenol is a heterocyclic compound.

Statement 2 : In heterocyclic compound different atoms like O, N, S etc. are present in the ring.

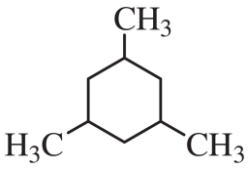
(A) Statement- 1 is true, statement- 2 is true and statement- 2 is correct explanation for statement-1.

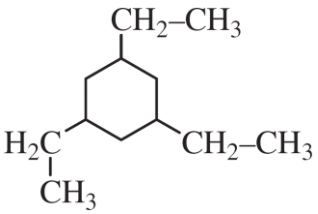
(B) Statement-1 is true, statement-2 is true and statement-2 is NOT the correct explanation for statement-1.

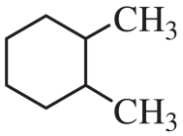
(C) Statement- 1 is true, statement- 2 is false.

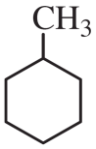
(D) Statement- 1 is false, statement- 2 is true.

5. In which compound 1°C: 2°C: 3°C (carbon) = 1: 1: 1. ?

(A) 

(B) 

(C) 

(D) 

6. All the members of homologous series have same:

(A) molecular mass

(B) functional group

(C) empirical formula

(D) general molecular formula

7. Compound having molecular formula $C_nH_{2n-4}O_3$ can have functional group.

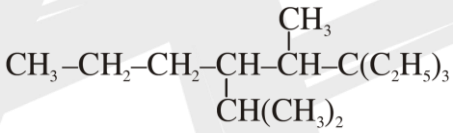
(A) 3-Aldehyde group

(B) 1-Carboxylic acid & 2-Aldehyde

(C) 1-Carboxylic acid anhydride & 1-alcohol

(D) 1-Carboxylic acid & 1-alcohol

8. The correct IUPAC name of the compound is:



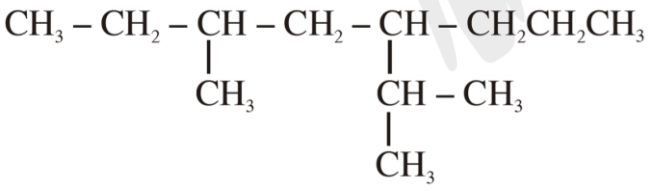
(A) 3,3-Diethyl-4-methyl 5-(1-methyl ethyl) octane

(B) 6,6-Diethyl-4-methyl-5-isopropyloctane

(C) 6,6-Diethyl-3-methyl 5-(1-methylethyl) octane

(D) 6,6-Diethyl-4-isopropyl-5-methyloctane

9. IUPAC name of the compound

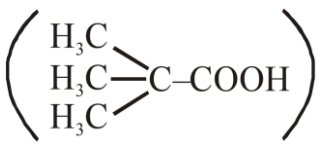


(A) 4-Isopropyl-6-methyloctane

(B) 3-Methyl-5-(1-methylethyl) octane

(C) 3-Methyl-5-isopropyloctane

(D) 6-Methyl-4-(1-methylethyl) octane

10. IUPAC name of pivalic acid  is:

(A) Isobutylic acid

(B) 2-carboxy-2-methyl propane

(C) 2,2-dimethyl propanoic acid

(D) 2,2,2 trimethylethanoic acid

ANSWER KEY

1.	D	**2.**	D	**3.**	BD	**4.**	D	**5.**	A	**6.**	BD	**7.**	A
8.	A	**9.**	BC	**10.**	C						