

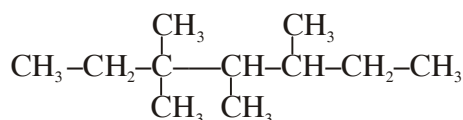
M.M. : 33

DPP # 04

TIME : 30 Min.

1.  $C_5H_{12}$  has a symmetrical structure with one quaternary carbon. Its IUPAC name is : [3]  
(A) n-pentane (B) 2-methylbutane (C) 2,2-dimethylpropane (D) 3-methylbutane
2. Which of the following compound has all four type ( $1^\circ, 2^\circ, 3^\circ, 4^\circ$ ) of carbon atoms : [3]  
(A) 2,3,4-Trimethylpentane (B) 2,2,3-Trimethylpentane  
(C) neo-pentane (D) none of the three

3. In following compound [3]



The correct lowest set of locant is :

4. The IUPAC name of [3]  

$$\begin{array}{ccccccc} \text{CH}_3 - & \text{C} = & \text{C} - & \text{CH} - & \text{CH}_2 - & \text{C} \equiv & \text{CH} \\ & | & | & | & & & \\ & \text{Cl} & \text{CH}_3 & \text{C}_2\text{H}_5 & & & \end{array}$$

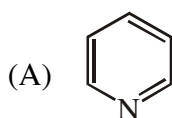
(A) 2-Chloro-4-ethyl-3-methyl-6-heptyn-2 ene  
(B) 2-Chloro-4-ethyl-3-methyl-2-heptyn-6 yne  
(C) 6-Chloro-4-ethyl-5-methyl-1-heptyn-5 ene  
(D) 6-Chloro-4-ethyl-5-methyl-5-hepten-1 yne

5. IUPAC name of  $\text{CH}_3 - \begin{array}{c} \text{H} \\ | \\ \text{C} \\ | \\ \text{CH}_3 \end{array} - \begin{array}{c} \text{C}_4\text{H}_9 \\ | \\ \text{C} \\ | \\ \text{CH}_3 \end{array} - \text{CH}_2 - \text{CH}_3$  is: [3]  
(A) 3,4,4- Trimethylheptane (B) 4-Ethyl-3,4-dimethyl octane  
(C) 2-Butyl-2-methyl-3-ethylbutane (D) None of these

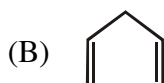
6. Match the column: [3]

**Column I**  
(Compounds)

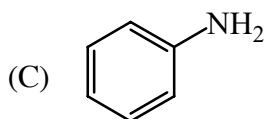
**Column II**  
(Property)



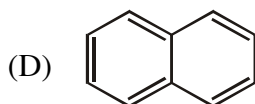
(P) Homocyclic compound



(Q) Homocyclic hydrocarbon

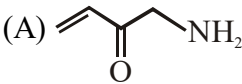
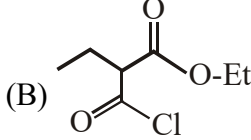
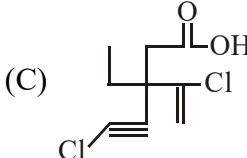
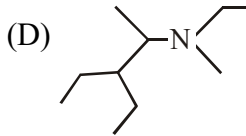


(R) Heterocyclic



(S) Even number of  $\pi$ -bond

(T) Odd number of  $\sigma$ -bond

7. 
$$\begin{array}{ccccccccccc} & & & & & \text{CH}_2 - \text{CH}_3 & & & & & \\ & & & & & | & & & & & \\ \text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - & \text{CH} & - & \text{CH} & - & \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_3 \\ & | & & & & & & & & & \\ & \text{CH}_3 - \text{C} - \text{CH}_3 & & & & & & & & & \\ & | & & & & & & & & & \\ & \text{CH}_3 & & & & & & & & & \end{array}$$
 [3]
- (A) 5-(1, 1-Dimethyl Ethyl)-6-Ethyl decane (B) 5-Ethyl-6-(1, 1-Dimethyl Ethyl) decane  
(C) 6-Ethyl-5-(1, 1-Dimethyl Ethyl) decane (D) 6-(1, 1-Dimethyl Ethyl)-5 Ethyl decane
8. IUPAC name of  $\text{CH}_3 - \text{CH} = \text{CH} - \text{C} \equiv \text{CH}$  is: [3]  
(A) 2-Penten-4-yne (B) 1-Pentyn-3-ene (C) 3-Penten-1-yne (D) None of these
9. Provide IUPAC name of the following compounds : [3]
- (A)  (B)  (C)  (D) 
10. Write correct IUPAC names of following compounds [3]  
(i) 2-Ethyl-5-hexyne (ii) 1-amino-3-isopropylpentan-1-one  
(iii) 1-methyl-2-vinyl cyclohex-1(6)-ene
11. The IUPAC name of the crotonaldehyde is:  $(\text{CH}_3 - \text{CH} = \text{CH} - \text{CHO})$  is - [3]  
(A) 2-Propenal (B) Propenal (C) 2-Butenal (D) Butenals