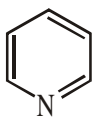
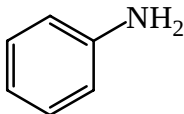
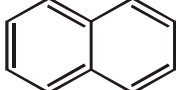


1. Match the column:

**Column I
(Compounds)**

- (A) 
- (B) 
- (C) 
- (D) 

**Column II
(Property)**

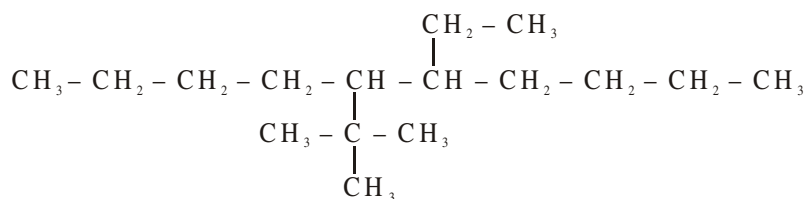
- (P) Homocyclic compound
- (Q) Homocyclic hydrocarbon
- (R) Heterocyclic
- (S) Even number of π -bond
- (T) Odd number of σ -bond

*2. **Statement 1 :** 3-Bromo-4-ethyl pentanoyl bromide is not the correct IUPAC name

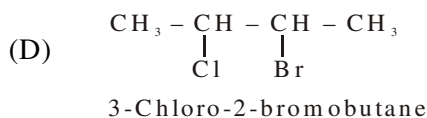
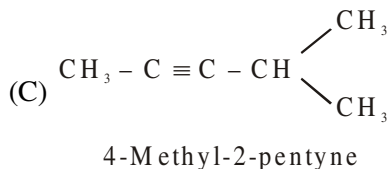
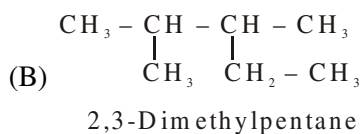
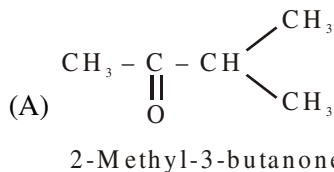
Statement 2 : Selection of carbon chain in 3-Bromo-4-ethyl pentanoyl bromide is not according to IUPAC rule.

- (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.

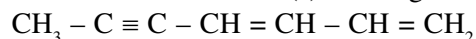
*3.



- (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
4. IUPAC name of $\text{CH}_3 - \text{CH} = \text{CH} - \text{C} \equiv \text{CH}$ is:
- (A) 2-Penten-4-yne (B) 1-Pentyn-3-ene (C) 3-Penten-1-yne (D) None of these
5. The incorrect IUPAC name is:

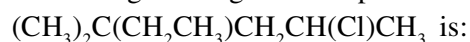


*6. Find out the correct statement(s) about given molecule.



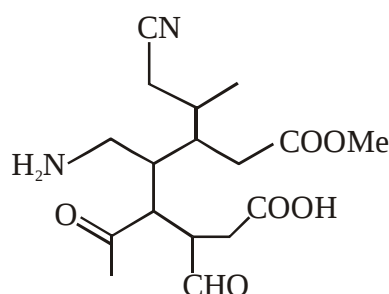
- (A) All the carbons in given molecule are not in same plane
 (B) IUPAC name is hepta-1,3-dien-5-yne
 (C) It has 4 sp^2 hybrid carbons, 2 sp hybrid carbons and 1 sp^3 hybrid carbon
 (D) All the carbons in given molecule are in same plane

7. IUPAC name of given organic compound:



- (A) 5-Chloro-3,3-dimethylhexane (B) 5-Chloro-2-ethyl-2-methylpentane
 (C) 2-Chloro-4-ethyl-4-methylpentane (D) 2-Chloro-4,4-dimethylhexane

8. Number of functional groups and double bond equivalent are respectively.

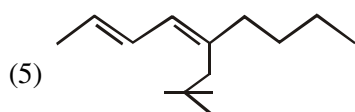
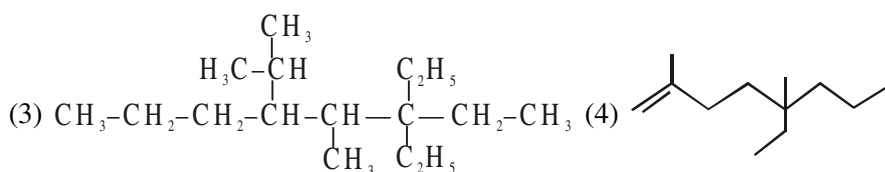
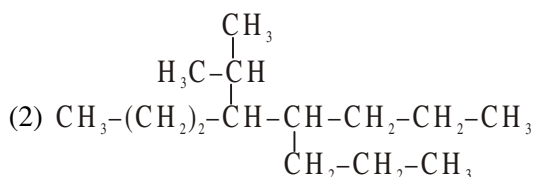
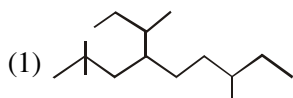


- (A) 6, 1 (B) 6, 5 (C) 6, 6 (D) 6, 7

9. IUPAC name of is

- (A) N-deutero-N-formylcyclohexanamine (B) N-cyclohexylamino-N-deuteromethanal
 (C) N-cyclohexyl-N-deuteromethanamide (D) N-deutero cyclohexanamine

*10. Provide the IUPAC name of following compounds :



Answers

RACE # 57

1. (A)-R,T ; (B)-P,Q,S,T ; (C)-P, (D) - P,Q,T 2. (A) 3. (A) 4. (C) 5. (AD) 6. (BCD)
7. (D) 8. (C) 9. (C)
10. (1) 2,2,7 Trimethyl-4-(methyl)propyl nonane (2) 4-(methylethyl)-5-n-propyl octane
(3) 3,3-Diethyl-5-isopropyl-4-methyl octane (4) 5-ethyl-2,5-dimethyl oct-1-ene
(5) 5-(2,2-dimethylpropyl)2,4-nonadiene