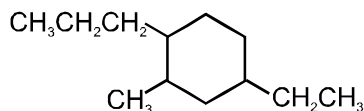
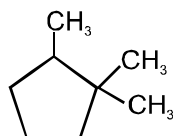


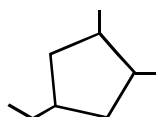
1. The IUPAC name of the above compound ?



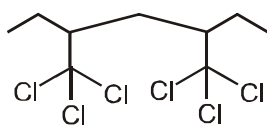
- (A) 5-ethyl-1-methyl-2-propylcyclohexane      (B) 1-ethyl-3-methyl-4-propylcyclohexane  
(C) 4-ethyl-2-methyl-1-propylcyclohexane      (D) 1-propyl-3-ethyl-2-methylcyclohexane
2. What will be the IUPAC name of the above compound ?



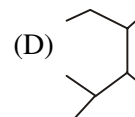
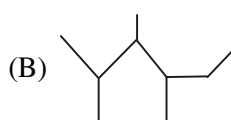
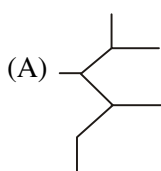
- (A) 1,1,2-trimethylcyclopentane      (B) 1,2,2-trimethylcyclopentane  
(B) 1,1,5-trimethylcyclopentane      (D) None of the above
3. Select the correct IUPAC name of the following compound



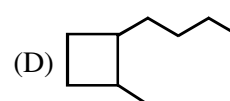
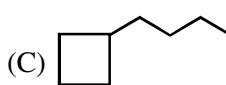
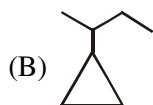
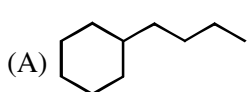
- (A) 3-ethyl-1,5-dimethylcyclopentane      (B) 1-ethyl-3,4-dimethylcyclopentane  
(C) 4-ethyl-1,2-dimethylcyclopentane      (D) 2-ethyl-4,5-dimethylcyclopentane
- \*4. The correct IUPAC name of the following compound is :



- (A) 1,1,1,5,5,5-Hexachloro-2,4-diethylpentane.      (B) 3,5-Hexachlorodimethylheptane.  
(C) 3,3,3,5,5,5-Hexachloromethylheptane.      (D) 3,5-Bis(trichloromethyl)heptane.
5. The correct structure of 2,3,4-Trimethylhexane is



6. In which of the following cyclic ring is a parent chain



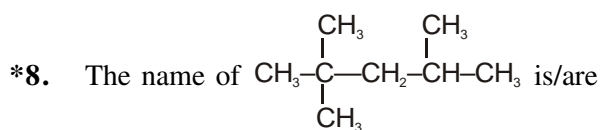
7. Which of the following are used as prefix :

(A) Bromo

(B) Nitro

(C) Methoxy

(D) Sulphonic acid



- (A) Isooctane  
(C) Neocatne

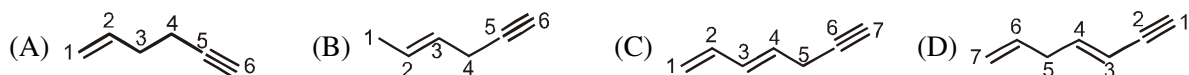
- (B) 2,2,4- Trimethylpentane  
(D) Isoheptane

### Comprehensions

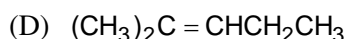
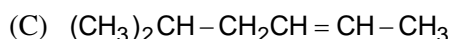
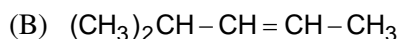
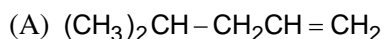
#### Paragraph for Question Nos. 9 to 10

While naming unsaturated hydrocarbons, lowest locant is allotted for multiple bond than any substituent, since the priority of multiple bond is more than any substituent present. When the locant for unsaturated is same from either side then double bond is given priority over triple bond. For main chain selection if the size of main chain and number of unsaturation are equal, then priority is given to the lowest set of locants for unsaturation.

\*9. Which of the following represents incorrect numbering ?



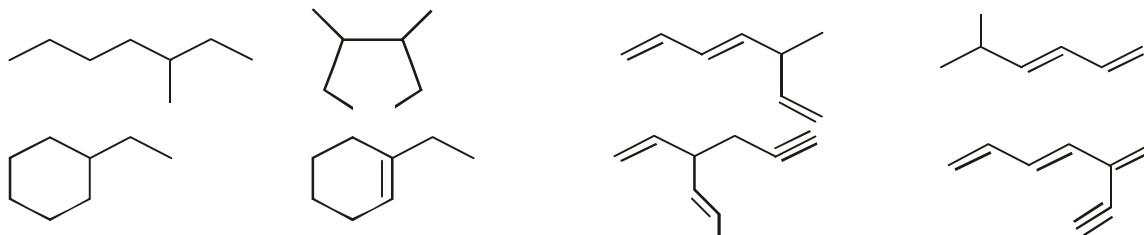
10. The structure of 4-Methylpent-2-ene is :



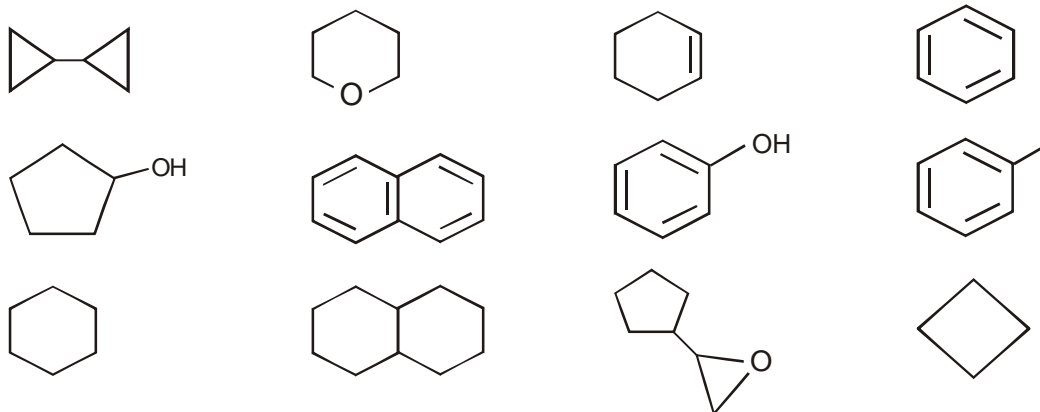
11. How many isopropyl groups are present in the parent chain ?



12. How many parent chains have root word hept or hepta in the following structures ?



13. How many compounds are hydrocarbon in the following?



# Answers

## RACE # 55

1. (C) 2. (A) 3. (C) 4. (D) 5. (ABD) 6. (ACD) 7. (ABC) 8. (AB)  
9. (B) 10. (B) 11. (3) 12. (4) 13. (8)