

7. Write the IUPAC name of the following compounds:-

(i)
$$CH_3 - CH_2 - CH - CH = CH - CH_2 - CH_3$$
 (ii)

8. Write the IUPAC name of the following compounds:-

(i)
$$CH_3 - CH_3 - C \equiv C - CH_3$$

 CH_3

(iii)
$$CH_3 - C \equiv CCH(CH_3)_2$$



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(iii)

1. $\begin{array}{c} 1 & 2 & 3 & 4 \\ CH_2 = CH - C \equiv CH \\ sp^2 & sp^2 sp & sp \\ So according to IUPAC \end{array}$

2nd $C \rightarrow sp^2$ 3rd $C \rightarrow sp$

2. CH_2 -CH-O-CH-CH_3 I I CH_3 CH_3

is an example of symmetrical ether.

3. In homologue min $-CH_2$ - unit different present but function grou remain same.

So $CH_3 - \cdot NH - CH_2 - CH_3$ is correct answer.

4. (a)
$$CH_{3}$$

 CH_{3}
 CH_{3}
 CH_{3}
 CH_{3}
(b) CH_{3} - $C-2^{\circ}$
 CH_{3}
 CH_{3}
(c) CH_{3} - $C-C_{2}H_{5}$
(d) CH_{3} - $C-CH_{2}$ -
 CH_{3}
 CH_{3}

5. $\begin{array}{c} 3 & 2 & 1 \\ CH_2-CH-CH_2-CI & \text{is isobutyl chloride} \\ I \\ CH_3 \end{array}$

IUPAC \Rightarrow 1-Chloro-2-methyl propane

- **6.** (i) 2,2,3–Trimethylpentane
 - (ii) 5-Ethyl-3-methyloctane
 - (iii) 4-Ethyl-2,2,6-trimethylheptane
 - (iv) 3-Methylhexane
 - (v) 2, 2, 3, 3-Tetramethylhexane
 - (vi) 3-Ethyl-2,5,6-trimethylheptane
 - (vii) 2,3,6-Trimethylheptane
 - (viii) 3,3-Diethylpentane
 - (ix) 3,4-Diethyl-2,5-dimethylhexane

8. (i) 4-Methylpent-2-yne

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- (ii) 4-Propylhept-2-yne
- (iii) 4-Methyl-pent-2-yne
- (iv) 3,4,4-Trimethylhex-1-yne