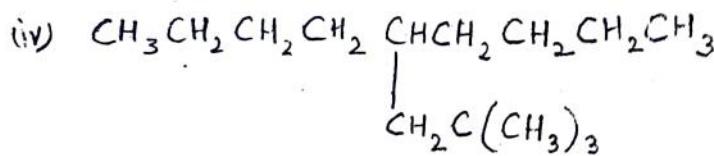
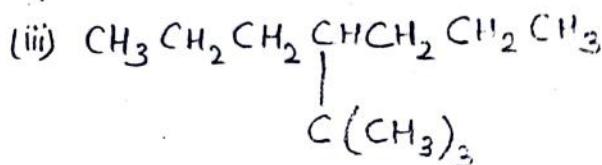
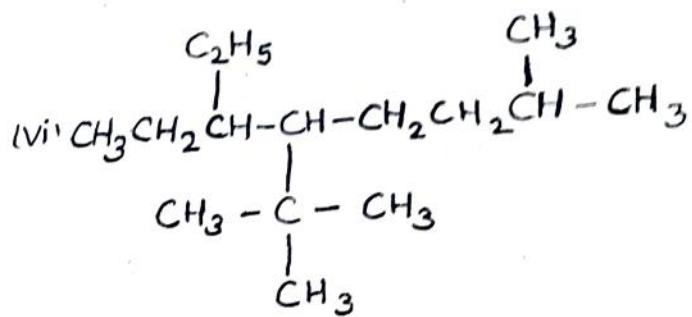
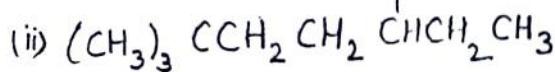
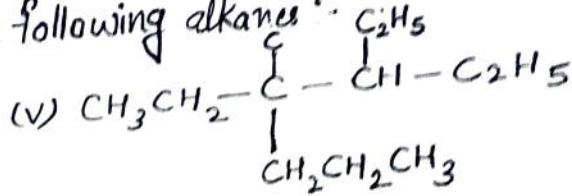
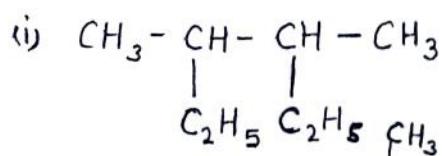


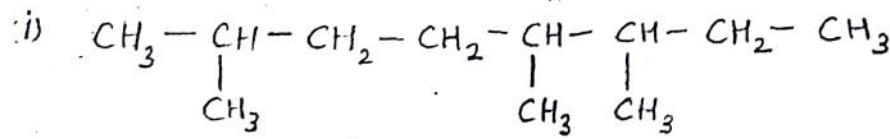
SARASWATI CHEMISTRY POINT

XII - (IUPAC NAMING)

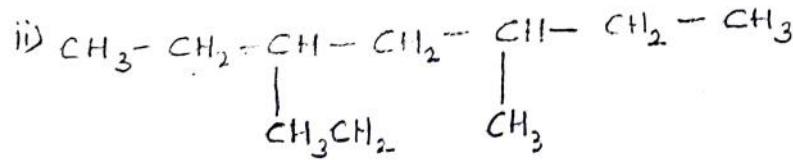
Q1 Give the IUPAC names of the following alkanes :-



Q2 Structures and IUPAC names of some hydrocarbons are given below. Explain why the names given in the parenthesis are incorrect.

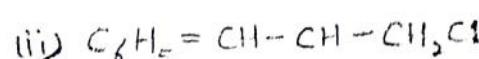
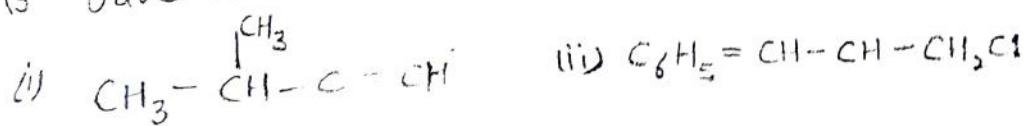


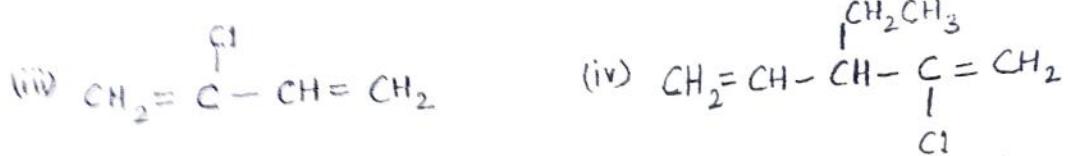
2,5,6 - Trimethyloctane
(and not 3,4,7 - Trimethyloctane)



3 Ethyl - 5 - methylheptane
and not 5 - Ethyl - 3 - methylheptane

Q3 Give the IUPAC names of the following compounds:-

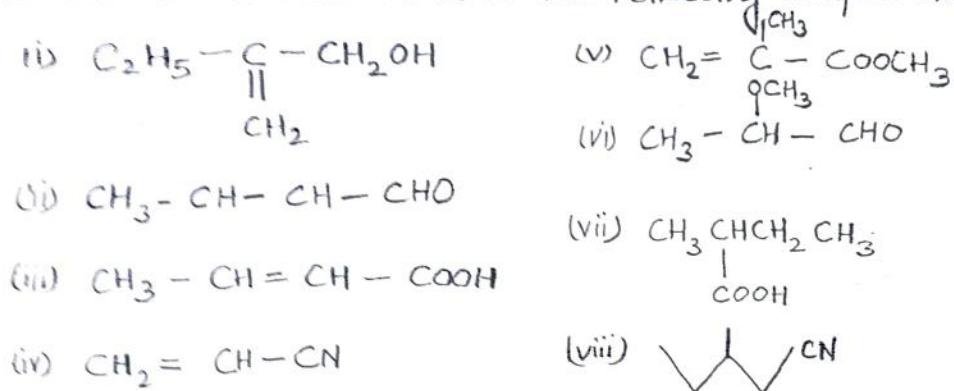




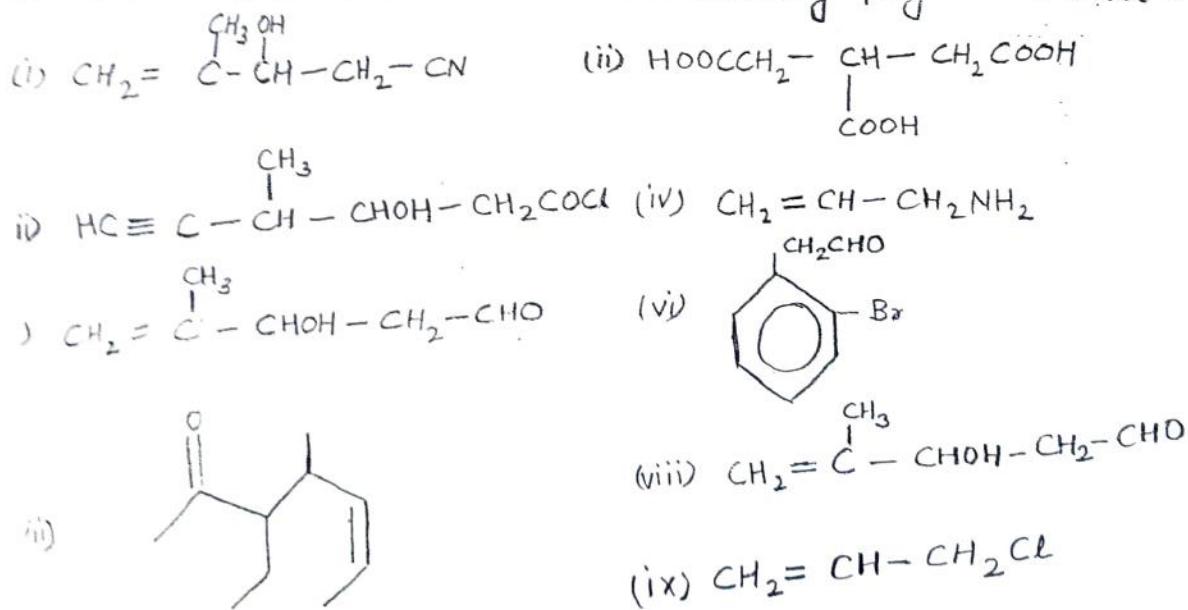
24 Give the condensed and bond-line structural formulae for the following:

- (a) 2-Methylbuta-1,3-diene (c) penta-1,4-dieno
 (b) Hexa-1,3,5-triene (d) 3-Ethylpenta-1,3-dieno

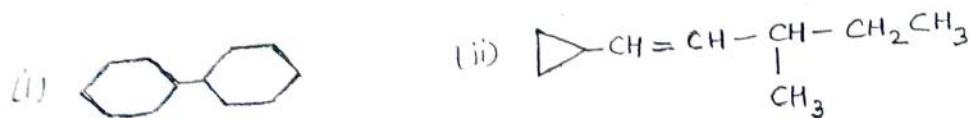
25 Give the IUPAC names of the following compounds:-

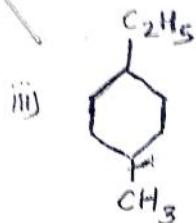


26 Give the IUPAC names for the following poly-functional compounds.

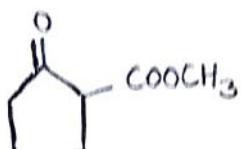


27. Give the IUPAC names of the following compounds:-

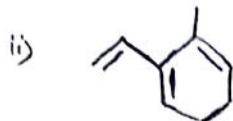
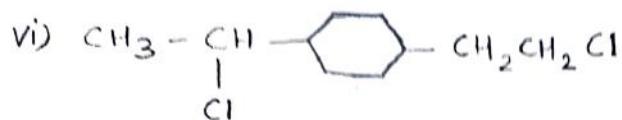
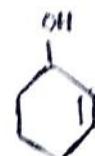




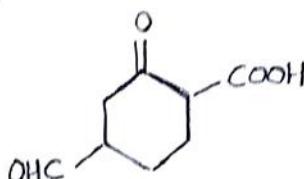
(iv)



(v)



(viii)



Q8 Write the structures of the following compounds :-

(i) 2-Chloro-3-methylpentene

(ii) 1-Chloro-4-ethylcyclohexane

(iii) 1-Bromo-4-sec-butyl-2-methylpentene

(iv) 1,4-Dibromobut-2-one

(v) 4-tert-Butyl-3-iodoheptane

Q9. Why is sulphuric acid not used during the reactions of alcohols with KI.

Ans. Eight isomers are possible. Their structures and IUPAC names are given below:

(i) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{Br}$
1-Bromopentane (1)

(ii) $\text{CH}_3\text{CH}_2\text{CHCH}_2\text{CH}_3$
3-Bromopentane (2°)

(iii) $\text{CH}_3 - \underset{\text{Br}}{\overset{|}{\text{C}}} - \text{CH}_2\text{CH}_3$
2-Bromo-2-methylbutane (3°)