

Nomenclature of Alkanes:

- ①. Identify the parent chain.
- ②. Numbering.
substituent should receive lowest number.
- ③. IUPAC naming: Prefix: subs. & Suffix: parent chain.

→ More than one substituent: Number &

Give Name in alphabetical order.

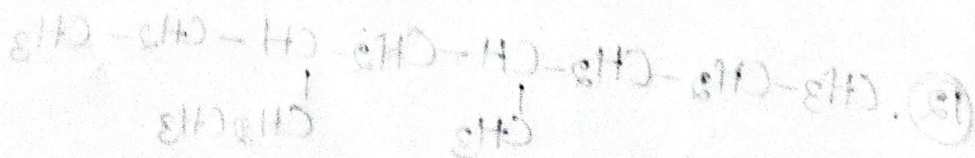
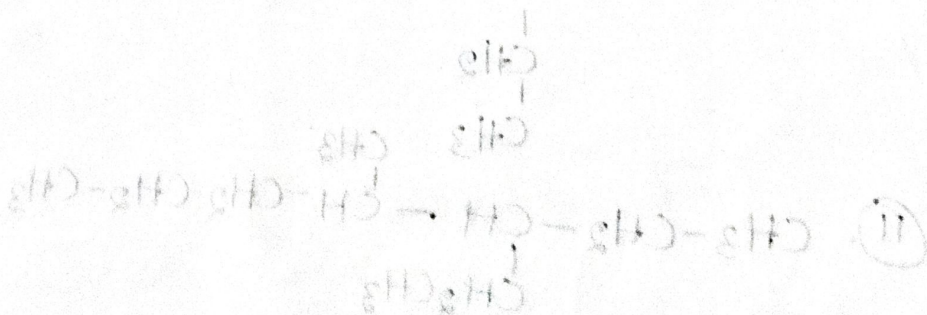
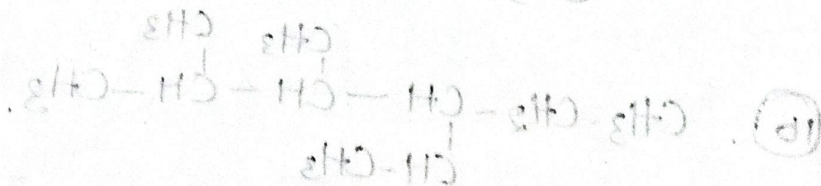
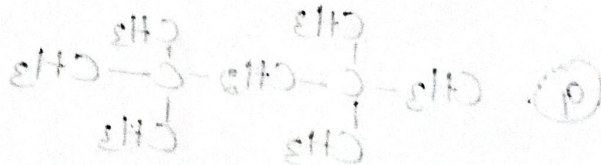
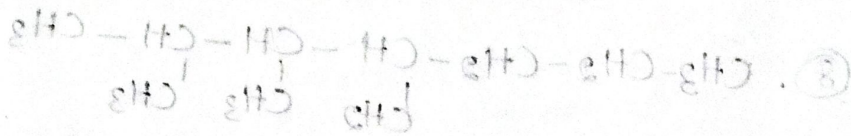
→ Similar substituents:

Mention their numbers, di/tri/tetra alkane

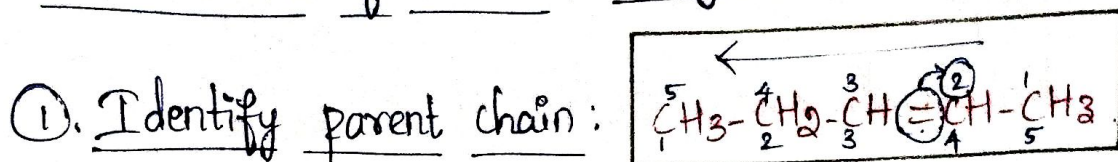
e.g: 1,1 dimethyl

→ If substitutions have other groups

(X, NO₂, etc): Name them alphabetically.



Nomenclature of Alkenes & Alkynes:



⇒ Chain with highest no. of C atoms.

⇒ If similar no. of C atoms are present in branches, choose the chain with maximum no. of substituents / = / ≡ bond.

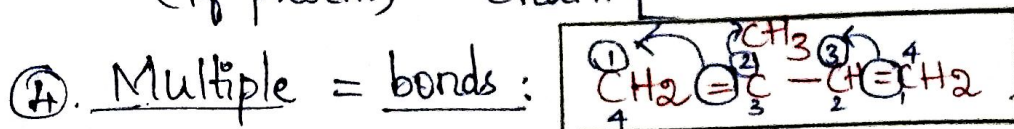
②. Numbering:

⇒ Numbering order: lowest to highest no.

= < ≡ < substituents.

③. IUPAC nomenclature:

Substituent + parent chain [Alk + ene(=) / yne(≡)]
(if present)

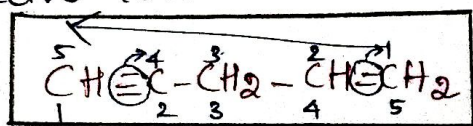


② = ⇒ Mention their numbering positions + diene

③ = ⇒ Mention their numbers + triene.

E.g: 2 methyl ~~buta~~ 1,3 diene.

⑤. If both = & ≡ bonds are present, = should receive lowest number & given name first.



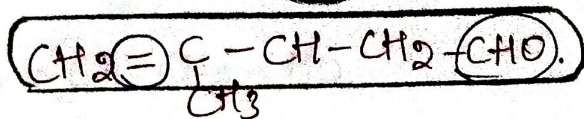
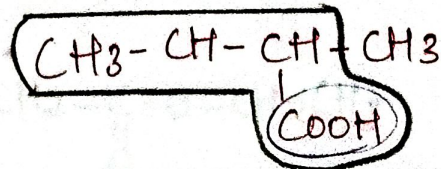
E.g: Pent-1-en-4-yne.

Functional groups:

①. Identify parent chain:

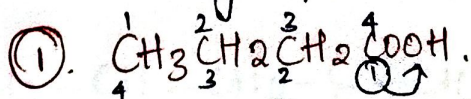
⇒ Longest carbon chain

⇒ Carbon chain with functional group.



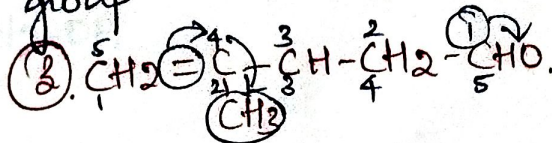
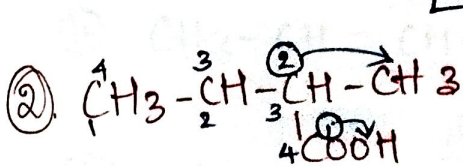
②. Numbering:

⇒ Functional group should receive lowest no.



⇒ Numbering order: Lowest to highest.

[functional group < = < ≡ < subs.]



③. Naming:

Halo/ + Substituent's alkyl name + parent chain
 NO₂ (if present) (if present)

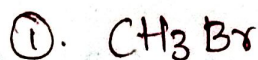
[Alk + (= / ≡) en / yn + f.g.'s suffix
 {if present}]

①. Butan-1-oic acid / Butanoic acid

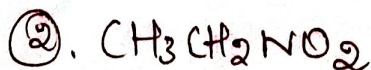
②. 2-methyl butanoic acid.

③. 4-methyl pent-4-en-1-al.

④. Halogens (Cl, Br, I, F) & NO₂ groups are considered as substitutions.

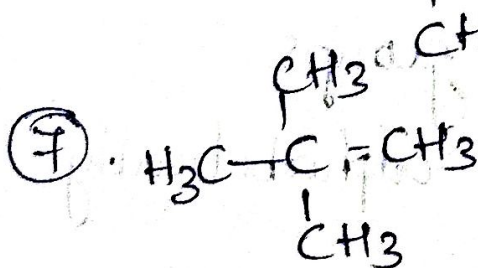
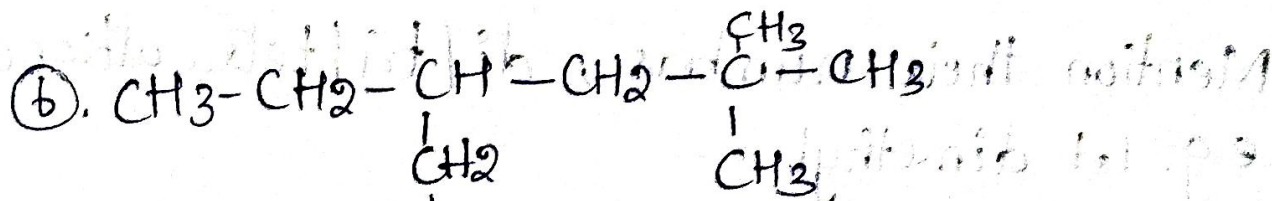
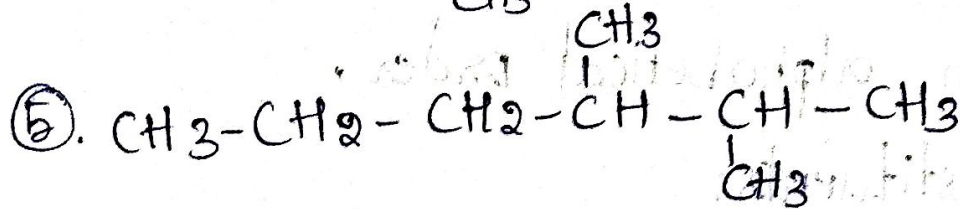
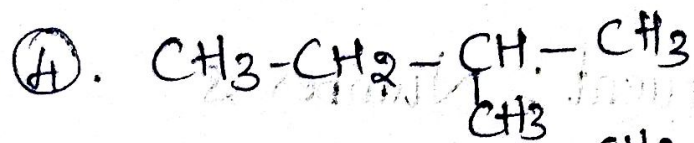
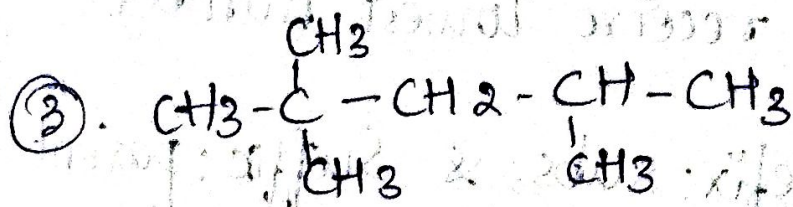
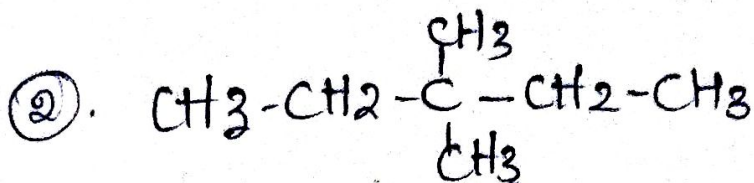
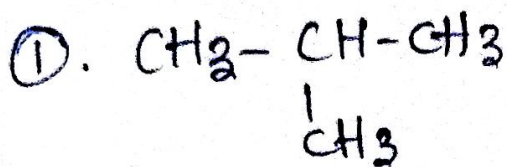


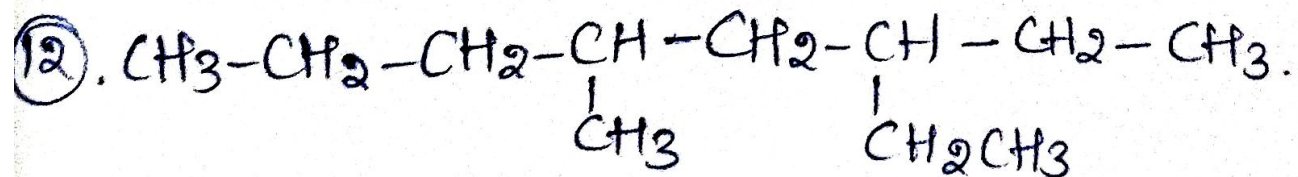
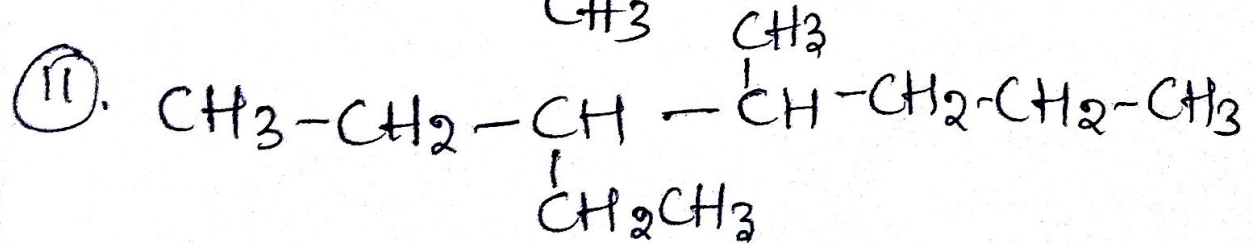
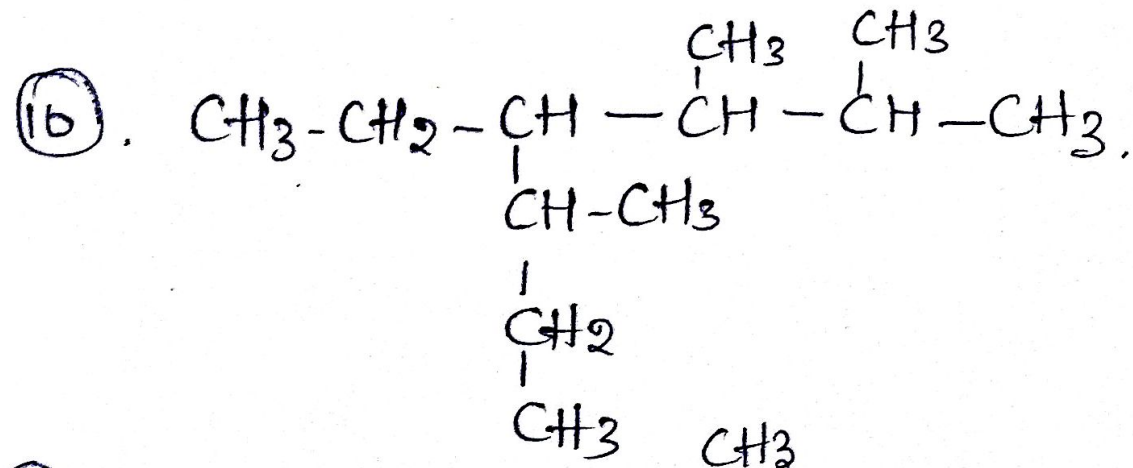
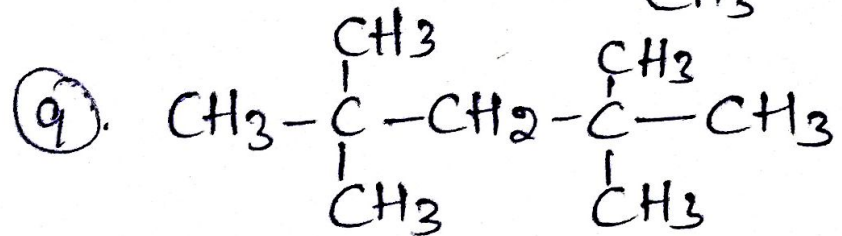
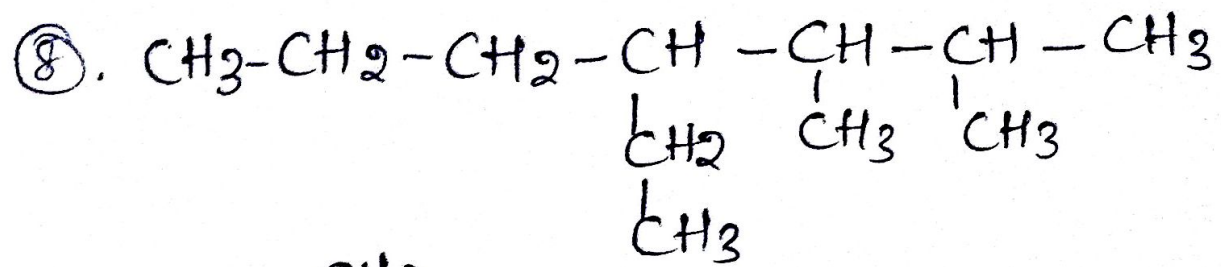
Bromomethane

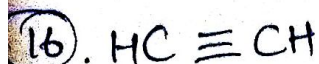
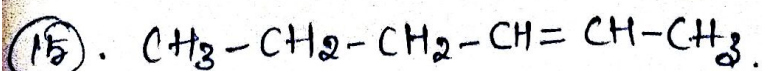
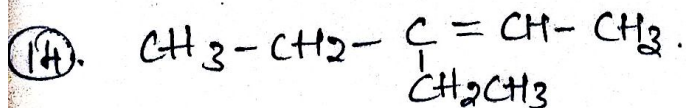
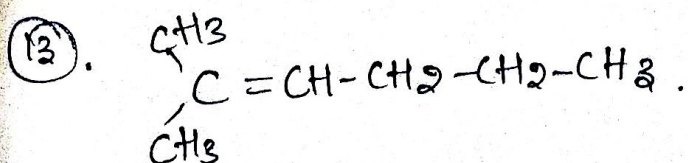
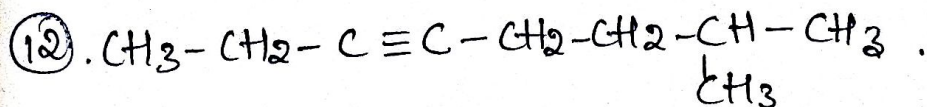
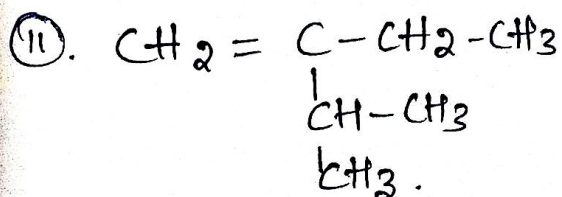
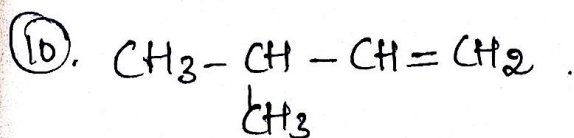
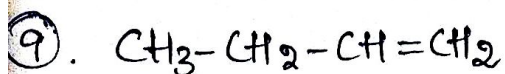
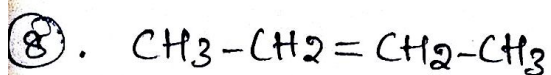
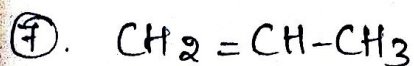
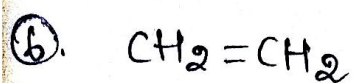
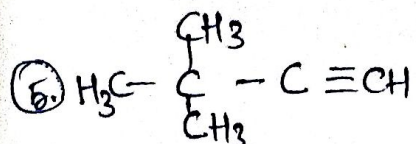
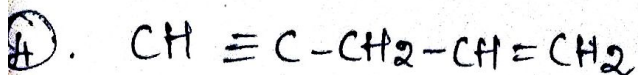
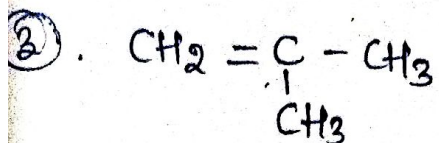
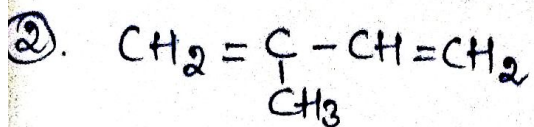
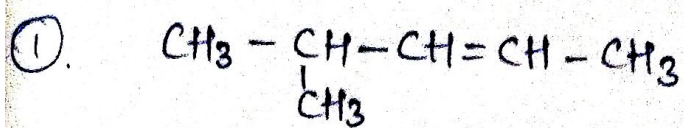


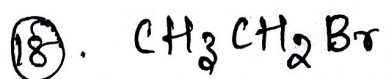
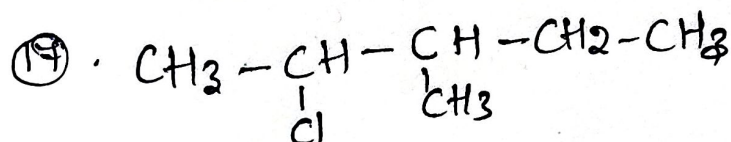
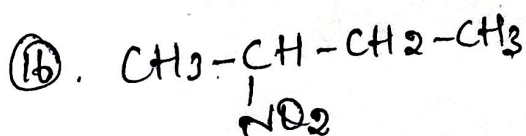
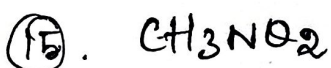
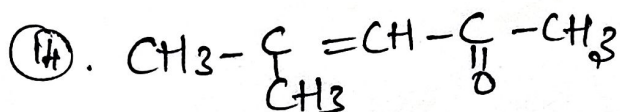
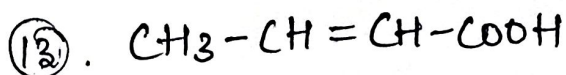
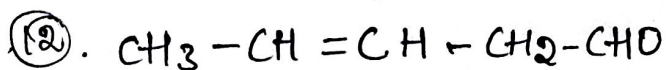
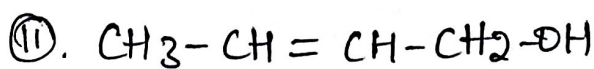
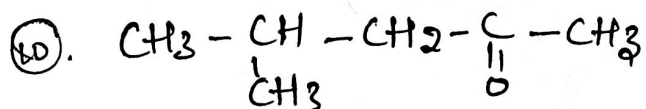
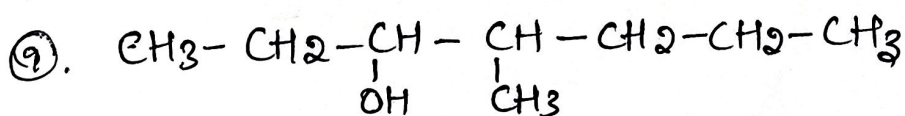
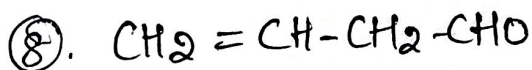
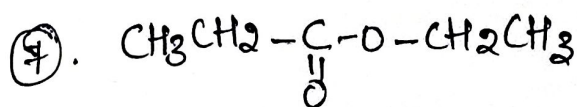
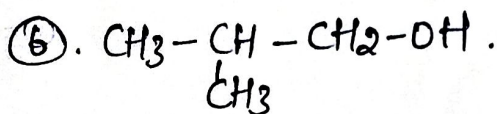
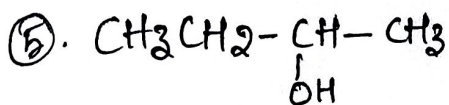
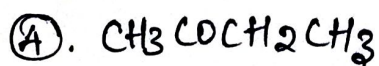
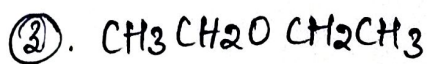
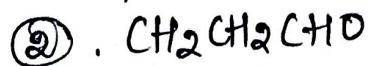
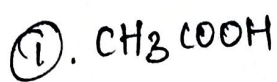
Nitro ethane.

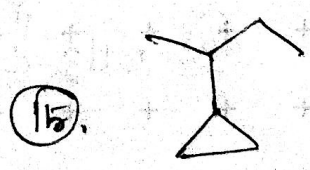
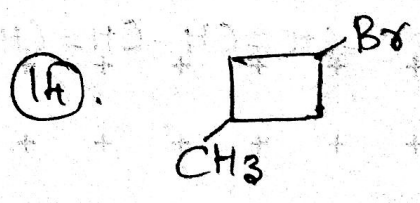
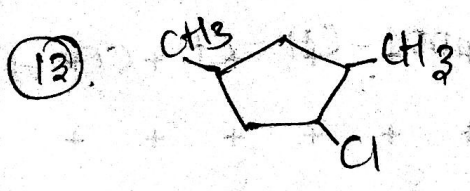
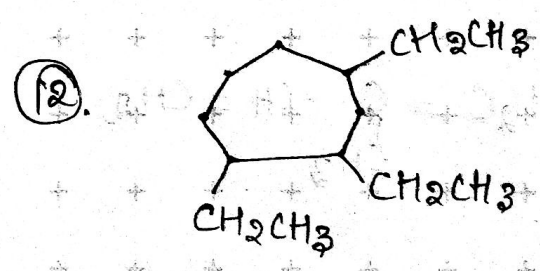
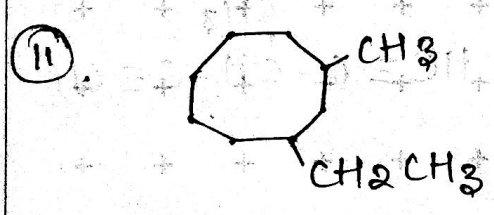
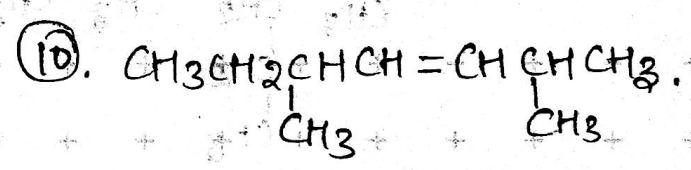
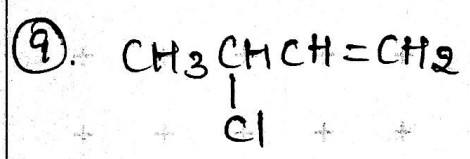
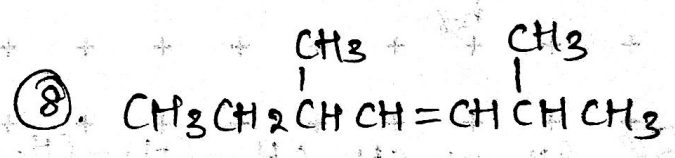
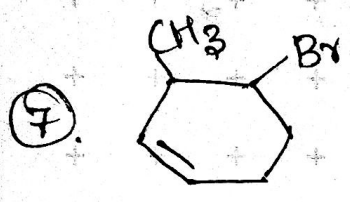
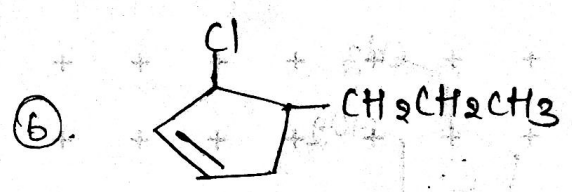
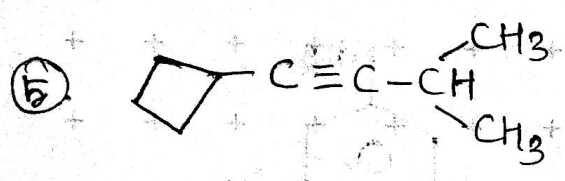
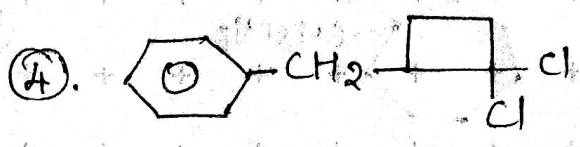
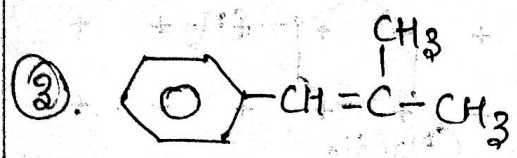
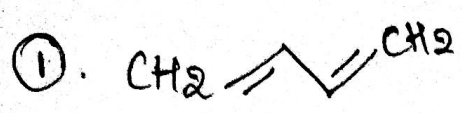
Alkanes:





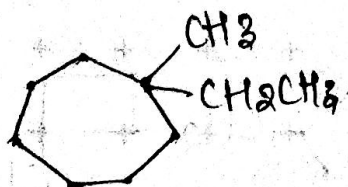




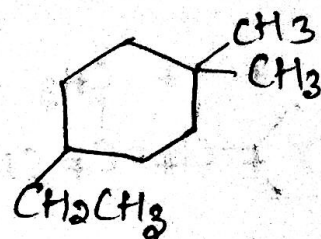


Date

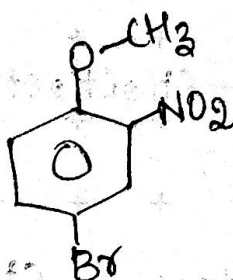
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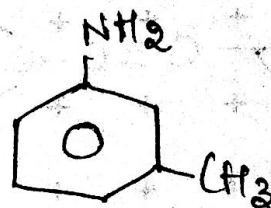
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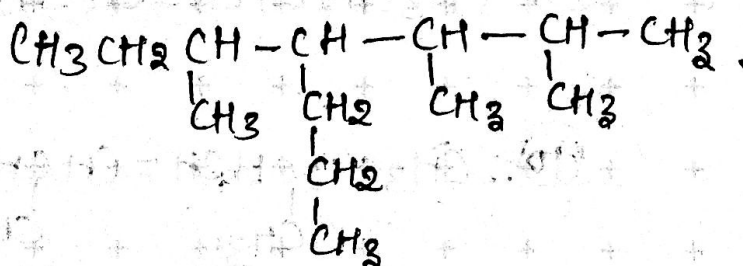
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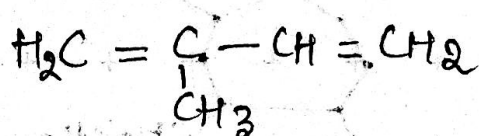
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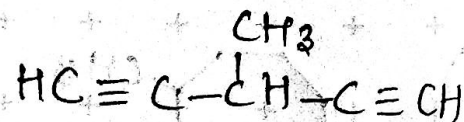
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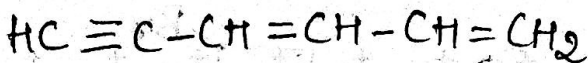
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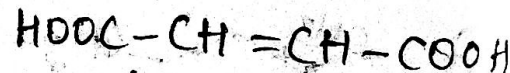
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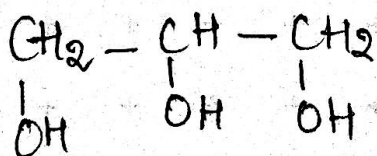
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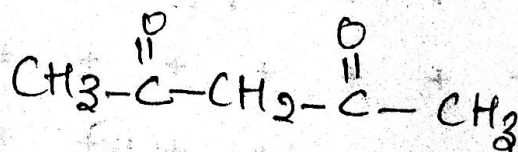
(24)



(25)



(26)



Happiest Moment of the Day

