

Date: 07.09.20

M.Sc. Sem. IV
Organic Chemistry.
Topic: Terpenoids.

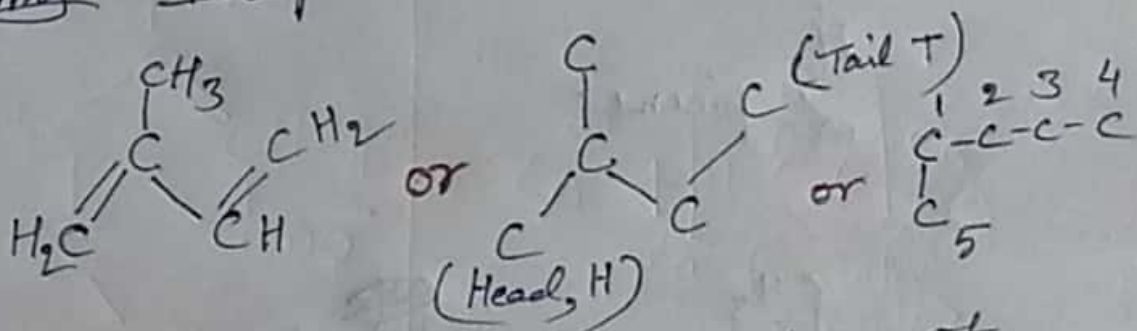
Isoprene rule :-

Qn. Explain Isoprene rule with suitable examples.

Identify the isoprene units of α -pinene.

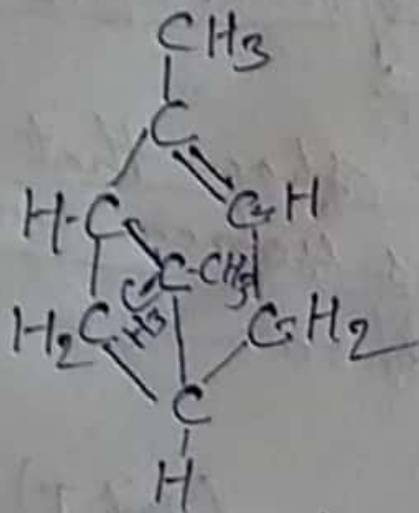
How would you ^{or} show that terpenoids contains isoprene units?

Ans. Isoprene is shown as -



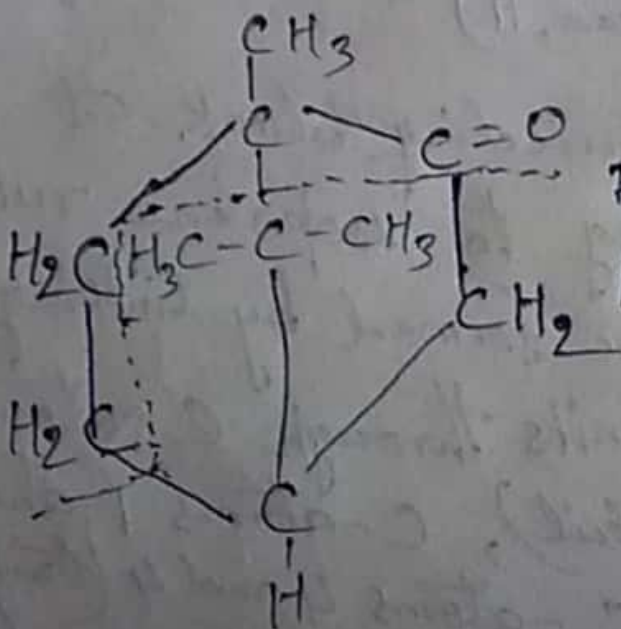
Isoprene is the building block of terpenes. According to isoprene rule, terpene skeletons are formed by linking together isoprene units through C-atoms 1 and 4 (Head to Tail), C-atoms 1 and 1 (head to head), C-atoms 4 and 4 (tail to tail) or combination thereof.

The head to tail arrangement is most common. e.g.,



or molecular formula $C_{10}H_{16}$

α -pinene.



camphor

