

★ Hydrocarbon:

• classification:

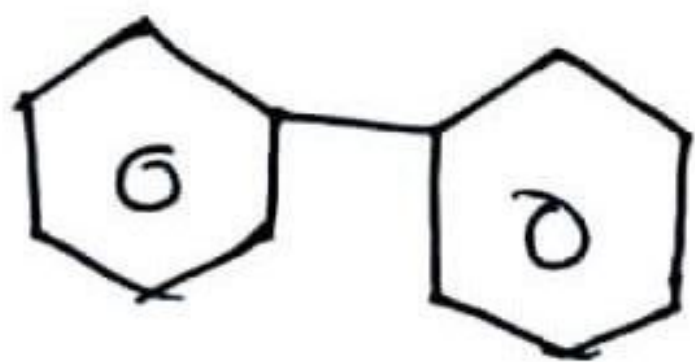
① Benzenoid.

ऐसे hydrocarbons जो
benzene ring रखे और
Huckle rule follow करें.



(i) Isolated:

- compounds isolated & attach (L.D.R)

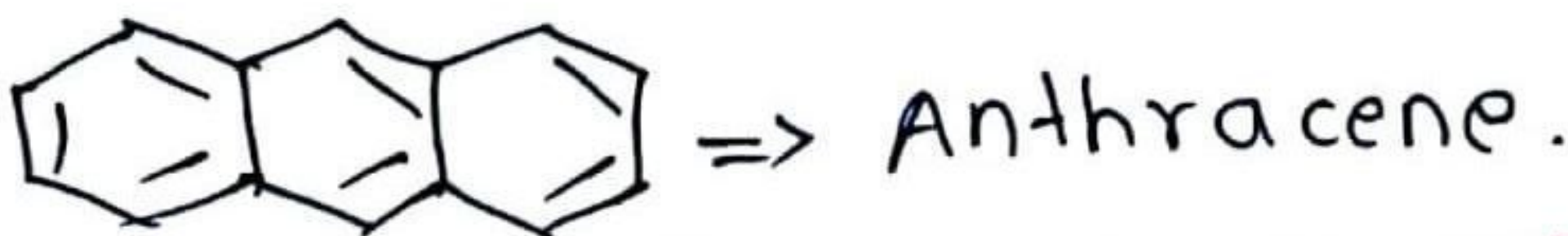


[DEPTH OF BIOLOGY]

(ii) Fused:



- 2 (or) > 2 fused together



② Non-Benzenoid: [DEPTH OF BIOLOGY]

NAPHTHALENE

STRUCTURE



- Simplest Polycyclic aromatic hydrocarbon
- Organic component
- Molecular Formula = $C_{10}H_8$
- White crystalline solid
- 3 Resonating structure
- Here delocalisation of πe^- - So Resonance energy decreases

REACTIVITY

Naphthalene > Benzene

- Naphthalene Resonance energy = 61 kcal / mol
- Benzene Resonance energy = 36 kcal / mol