

Sri Venkateshwara Vidhyalayaa Higher Secondary School

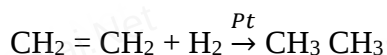
Thasampalayam, Polavakkalipalayam (Po), Gobi – 638 476

XI – Chemistry (Organic 2 & 3 Marks)

1. Define R_f Value

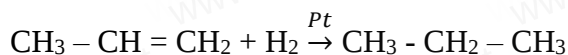
$$R_f = \frac{\text{Distance moved by the substance from Base line}}{\text{Distance moved by the solvent from Base line}}$$

2. Write about Sabatier sendersens reaction



Ethane

Ethane



Propene

Propane

3. Corey – House mechanism



4. Define pyrolysis and cracking

* Thermal decomposition of organic compound into smaller frogments in the absence of air by heat

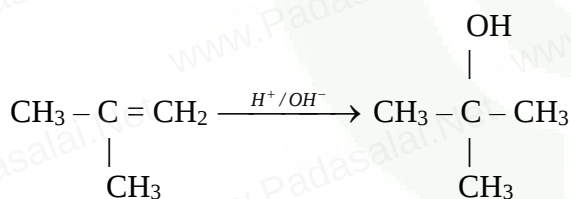
* Pyrolysis of alkane is also named as cracking

5. Define Markovnikoff's rule

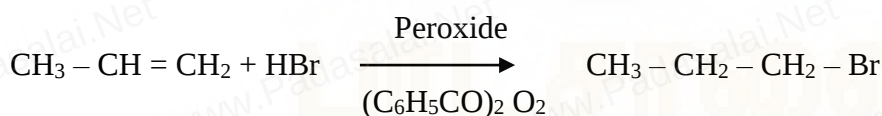
Unsymmetrical alkene + Hydrogen halides

Hydrogen adds to the carbon that has more number of hydrogen

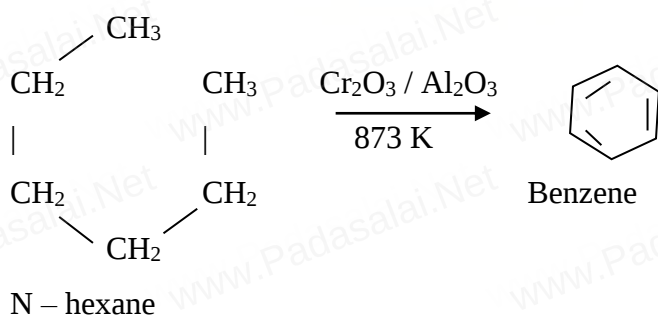
Halogen adds to the carbon that has less number of hydrogen



6. Antimarkovnikoff (or) Peroxide (or) Kharasch Addition



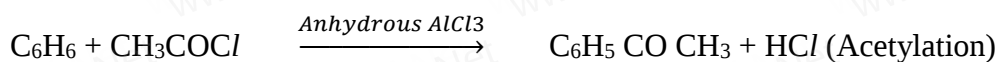
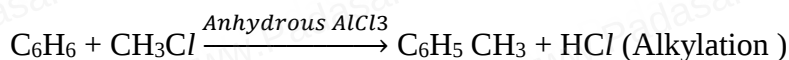
7. Aromatisation



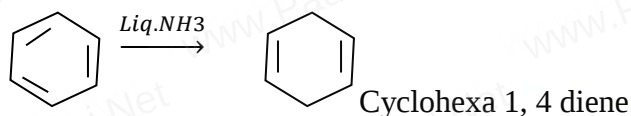
8. Huckel rule

- * must be co – planar
- * Complete delocalization of π electron in ring
- * Presence of $4n + 2$ electrons

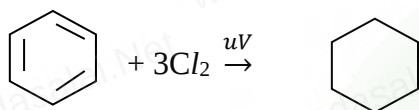
9. Friedel crafts reaction



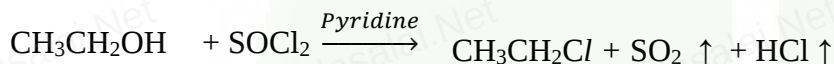
10. Birch reduction (Refer the Book)



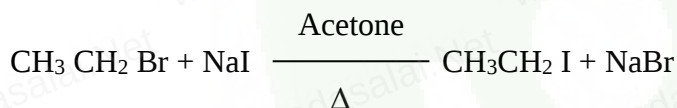
11. Preparation of (BHC) (or) gammazane (or) Lindane (Refer Book)



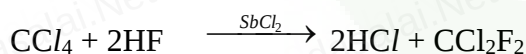
12. Darzen halogenations



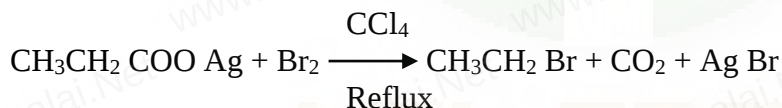
13. Finkelstein reaction



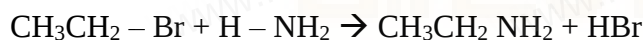
14. Swarts reaction



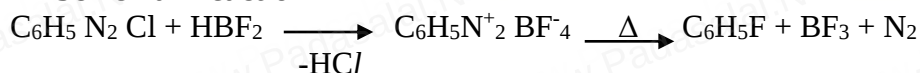
15. Hunsdicker reaction



16. Ammonolysis



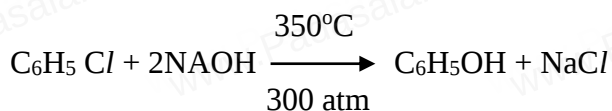
17. Balz – Schieman reaction



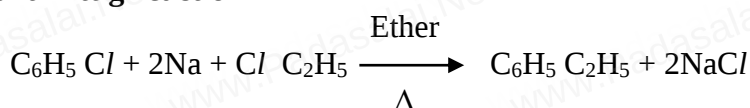
18. Raschig process



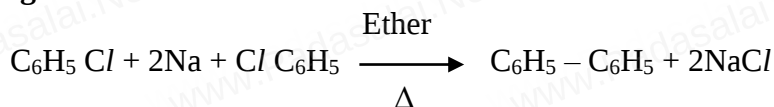
19. Dow's Process



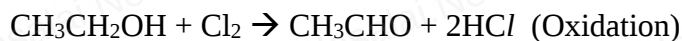
20. Wurtz fittig reaction



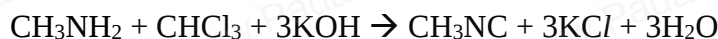
21. Fittig reaction



22. Preparation of chloroform



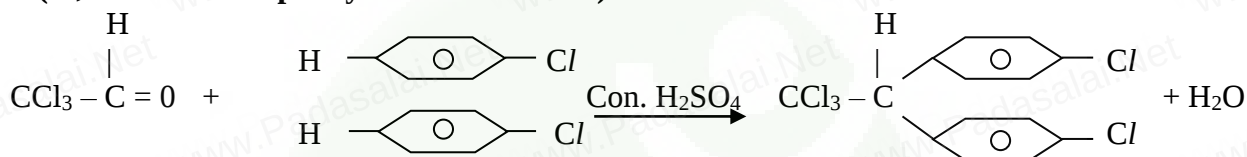
23. Carbylamine reaction



24. Preparation of chloropicrin



25. DDT (P', P' dichloro diphenyl trichloro ethane)



- * Control agricultural pest
- * Kill the various insects like house fly, mosquitoes etc
- * Building construction as pest control
- * Control insect which carries diseases like malaria and yellow fever.

26. Williamson ether synthesis



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### Prepared by

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