CHEMISTRY STUDY MATERIALS FOR CLASS 12

(NCERT BASED QUESTIONS OF ORGANIC PART)

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Answer the following questions

- 1. Define organic chemistry.
- 2. What is meant by the term catenation?
- 3. Write the necessary conditions of catenation.
- 4. Why only carbon shows catenation property?
- 5. Who was responsible for the formation of organic compounds?
- 6. Who influences the bond length and bond enthalpy (strength) in organic compounds?
- 7. How many σ and π bonds are present in each of the following molecules?
 - (a) HC≡CCH=CHCH3
 - (b) CH₂=C=CHCH₃
- 8. Write the state of hybridisation of carbon in the following compounds and shapes of each of the molecules.
 - (a) $H_2C=O$
 - (b) CH₃F
 - (c) HC≡N.
- 9. Write the molecular, complete structural and bond line formula of the following compounds;
 - (a) CH₃CH₂COCH₂CH₃
 - (b) CH₃CH=CH (CH₂)₃CH₃
 - (c) HO (CH₂)₃CH (CH₃) CH (CH₃)₂
 - (d) HOCH $(CN)_2$
- 10. Write the Wedge-and-dash representation of CH4