



MBC – MRIDUL BHAIYA CLASSES

TEST PAPER – 01

Class X Science
Test for Carbon and its Compounds

MAXIMUM MARKS : 25 Marks

MAXIMUM TIME : 35 Min

1. Give the electron dot structure of CO_2 .
(2 Marks)
2. What is hydrogenation? What is its industrial application?
(2 Marks)
3. What is functional group? Identify the functional group present in CH_3COOH and $\text{C}_2\text{H}_5\text{OH}$.
(3 Marks)
4. Explain the mechanism of cleaning action of soaps.
(3 Marks)
5. (a) What are hydrocarbons?
(b) Give difference between saturated and unsaturated hydrocarbons.
(c) Why does carbon form large number of compounds?
(5 Marks)
6. Define catenation.
(1 Marks)
7. Give reason why carbon can neither form C^{4+} cations nor C^{4-} anions, but forms covalent compounds. Also, state the reason to explain why covalent compounds are bad conductors of electricity and have low melting and boiling points?
(3 Marks)
8. What are covalent compounds? How are they different from ionic compounds? List any two properties of covalent compounds.
(3 Marks)
9. Which compounds are called (i) alkanes, (ii) alkenes and (iii) alkynes ? C_4H_{10} belongs to which of these? Draw two structural isomers of this compound.
(3 Marks)
10. Draw the structures for (i) ethanol, (ii) ethanoic acid.
(1 Marks)