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**CBSE TEST PAPER-03**  
**CLASS - X (Carbon and its compound)**

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1. The odour of acetic acid resembles that of (1)
  - (a) Rose
  - (b) Burning Plastic
  - (c) Vinegar
  - (d) Kerosene
2. Diamond is not a good conductor of electricity because (1)
  - (a) is very hard
  - (b) Its structure is very compact
  - (c) It is not soluble in water
  - (d) It has no free electrons to conduct electric current.
3. Alcohols can be produced by the hydration of (1)
  - (a) Alkenes
  - (b) alkynes
  - (c) alkenes
  - (d) acids
4. The IUPAC name of  $\text{CH}_3\text{CHO}$  is (1)
  - (a) Acetaldehyde
  - (b) formaldehyde
  - (c) methyl formaldehyde
  - (d) ethanol
5. IUPAC name of first member of homologous series of ketones is (1)
  - (a) Ethanone
  - (b) methanone
  - (c) Propanone
  - (d) Butanone

6. What are the properties of carbon which lead to the huge number of carbon compounds we see around us? (2)
7. Name the following compound (2)
  - (a)  $\text{CH}_3\text{-CH}_2\text{-Br}$
  - (b)  $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-C}\equiv\text{CH}$
8. Why is conversion of ethanol into ethanoic acid an oxidation reaction? (2)
9. A mixture of ethyne and oxygen is used for welding. Can you justify why a mixture of ethyne and air is not-used? (2)
10. What is a homologous series? State any two characteristics of homologous series? (3)
11. Give the structural formulas for (3)
  - (i) Methyl Ethanoate
  - (ii) Ethyl ethanoateWrite two uses of Ester?
12. What are enzymes? Name the enzymes required for the fermentation of sugar cane to ethanol? (3)
13. The formula of an ester is  $\text{C}_3\text{H}_7\text{COOC}_2\text{H}_5$  write the formulae of the acid and alcohol from which the ester is prepared. (3)
14. An organic compound A is widely used as a preservative in pickles and has a molecular formula  $\text{C}_2\text{H}_4\text{O}_2$ . This compound reacts with ethanol to form a sweet smelling compound B. (5)
  - (a) Identify the compound A.
  - (b) Write the chemical equation for its reaction with ethanol to form compound B.
  - (c) How can we get compound A back from B.
  - (d) Name the process and write the corresponding chemical equation.
  - (e) Which gas is produced when compound A reacts with washing soda? Write the chemical equation?