



# VIDYANIKETAN COACHING CLASSES, GHANSAWANGI

Class:- 10<sup>th</sup>  
Sub.:- Science-1

Mark's:- 25  
Time:- 1:30 Hr

**Q.1) A] Choose the correct alternatives for the following question's. [3]**

- The possible isomers for  $C_5H_{12}$  are.....  
(A) 2 (B) 4 (C) 1 (D) 3
- The reaction of.....with ethanol is a fast reaction.  
(A) Calcium (B) Magnesium (C) Sodium (D) Aluminium
- Ethylene has.....bond between two carbon atoms.  
(A) A Single (B) A Double (C) A Triple (D) Ionic

**Q.1) B] Match the column's. [2]**

Column I	Column II
i) Ethanol	a) Biogas
ii) Aldehyde	b) $C_6H_{12}$
iii) Cyclohexane	c) Tincture iodine
iv) Methane	d) -CHO

**Q.2) Answer the following question's. [Any-3] [6]**

- Distinguish between: Alkane and Alkene.
- State the properties of Ethanoic acid.
- Explain the following reaction giving their balanced chemical equation:  
a) Ethanoic acid is treated with sodium carbonate.
- Draw the electron dot structure and line structure of methane molecule.
- State the uses of ethanol.

**Q.3) Answer the following question's. [Any-3] [9]**

- Explain the following terms with example: "Functional group."
- Write structural formulae for the following IUPAC names.  
a.) pentan-2-one b.) propan-2-ol c.) Ethanamine
- Give names of three natural polymers. Write the place of their occurrence and names of monomers from which they are formed.
- What causes the existence of very large number of carbon compound?
- Unsaturated carbon compounds burn with a yellow flame. Give reason

**Q.4) Answer the following question's. [Any-1] [5]**

- Explain isomerism. State any four characteristics of isomers. Draw the structures of possible isomers of butane,  $C_4H_{10}$ .
- What are the hydrocarbons, write the name and general formula of (i) saturated hydrocarbons, (ii) unsaturated hydrocarbons, and draw the structure of one hydrocarbon of each type.  
How can an unsaturated hydrocarbon be made saturated?

Best of luck.....

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