ISUNIL TUTORIAL, SAMASTIPUR, BIHAR

Guess Paper – 2012 Class – X Subject - Science Carbon and its compounds

Answer the following questions:

Section A – one mark each

- **1.** Alcohols can be produced by the hydration of.
- **2.** Write the name of C_{60} molecule.
- 3. The property of carbon to form a long chain in compounds is called
- **4.** Which of the following compounds have triple bond

 C_2H_4 , C_3H_4 and C_3H_6

- 5. The general formula CnH2n for cyclo alkanes is the same as that of
- **6.** Write structure formula of 2- methyl propane.
- 7. The IUPAC name of acetylene is
- **8.** Name the functional groups present in the following compounds CH₃COOH, CH₃COCH₂CH₃
- 9. -----and -----are molecular formula of ethanol and propane.
- **10.** The IUPAC name of CH₃CHO is ------

Section B - 2 marks each

- 11. Write the chemical equation of the reaction which takes place during burning of ethanol in air.
- 12. The molecular formula present in ester $C_3H_7COOC_2H_5$. Write the molecular formula of the alcohol and the acid from which it might be prepared.
- 13. A mixture of ethyne and oxygen is used for welding. Can you justify why a mixture of ethyne and air is not-used?
- 14. Write the reaction which is used as a test for ethanol and dehydration of ethanol.
- 15. What is reaction with ethanoic acid with ethanol?

Section C - 3 marks each

- 16. Write any three physical and chemical properties of ethanoic acid.
- 17. Write any three tests of carboxylic acids.
- 18. How many structural isomers are possible for pentane? Draw the structural formulae of all the possible isomers of pentane.
- 19. What are enzymes? Name the enzymes required for the fermentation of sugar cane to ethanol?
- 20. The formula of an ester is C3H7COOC2H5 write the formulae of the acid and alcohol from which the ester is prepared.