**Karan Arora** **R.L. Institute M: 9416974837**

**Max Time : 1 hr** **Class = 10th Science Test**  **Max Marks : 25**

**Carbon and its Compounds**

1. Multiple choice questions : [ 1 X 5 = 5 ]
2. Which of the following compound contains double bond?

|  |  |  |  |
| --- | --- | --- | --- |
| a) H2O | b) CH4 | c) NH3 | d) O2 |

1. The name of the compound CH­3 – CH2 – CHO is :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Propanal | b) Propanone | c) Ethanol | d) Ethanal |

1. Oils on treating with hydrogen in the presence of palladium or nickel catalyst form fats. This is an example of :

|  |  |
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| a) Additional reaction | b) Substitutional reaction |
| c) Displacement reaction | d) Oxidation reaction |

1. In which of the following compounds , – OH is the functional group ?

|  |  |  |  |
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| a) Butanone | b) Butanol | c) Butanoic acid | d) Butanal |

1. Identify the unsaturated compounds from the following :

(i) Propane (ii) Propene (iii) Propyne (iv) Chloropropane

|  |  |  |  |
| --- | --- | --- | --- |
| a) (i) , (ii) | b) (ii) , (iv) | c) (iii) , (iv) | d) (ii) , (iii) |

1. Write the next homologous of the following : (a) C2H4 (b) C4H6. [ 1 ]
2. A compound ‘X’ on combustion gives a yellow flame with lots of smoke. What inference would you draw from this statement? [ 1 ]
3. What is Vinegar? [ 1 ]
4. Which of the following formulas represent a saturated hydrocarbon? [ 1 ]

CnH2n + 2 , CnH2n + 1 , CnH2n , CnH2n – 2

1. Write the name and formula of the 2nd member of homologous series having general formula CnH2n – 2 . [ 1 ]
2. Complete the reaction given below and classify them as Combustion/ Oxidation/ Addition/ Substitutional reaction. [ 2 ]

(a) CH3CH2CH2OH (b) C2H4 + H2

1. How would you bring the following conversions? Name the process and write the reaction involved. (a) Ethanol to ethene (b) Propanol to propanoic acid. [ 2 ]
2. Explain the given reactions with examples : [ 3 ]

(a) Combustion reaction (b) Oxidation reaction (c) Substitutional reactions

1. Write four uses of ethyl alcohol. [ 3 ]
2. Draw the structure of following organic compounds : [ 1 x 5 = 5 ]

(a) 2 – Bromo hexane (b) Pentanoic acid (c) Octan – 2 – ol

(d) Heptanal (e) Butane

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