

## 14. Carbon and its Compounds

1. Very dilute solution of ethanoic acid \_\_\_\_.
2. When sodium metal is dropped in ethanol \_\_\_\_ gas will be released.
3. Soaps are the alkali salts of \_\_\_\_.
4. Number of single covalent bonds in ammonia are \_\_\_\_.
5. Sodium lauryl sulphate is an example of \_\_\_\_.
6. A sweet odour substance formed by the reaction of an alcohol and a carboxylic acid is \_\_\_\_.
7. The first member of homologous series among alkynes is \_\_\_\_.
8. Commercially available ethanol is known as \_\_\_\_.
9. The reactive part of the organic molecule is called its \_\_\_\_ group.
10.  $C_nH_{2n}$  is the general formula of \_\_\_\_.
11. Hydrocarbons having the general formula  $C_nH_{2n+2}$  are called \_\_\_\_.
12. Carbon compounds containing double bond and triple bonds are called \_\_\_\_.
13. Formula of Ethyl acetate \_\_\_\_.
14. \_\_\_\_ catalyst used to in the hydrogenation of oils.
15. Nano tubes are discovered by which scientist \_\_\_\_.
16. General formula of Alkenes? ( )  
a)  $C_nH_{2n+2}$       b)  $C_nH_{2n}$       c)  $C_nH_{2n-2}$       d)  $C_nH_{2n+4}$
17. Which is ester group? ( )  
a) -OH      b)  $\begin{array}{c} \square \\ | \\ -C-OR \end{array}$       c)  $-NH_2$       d)  $CH_3-O-CH_3$
18. Which is a amine functional group? ( )  
a)  $-COOH$       b)  $\begin{array}{c} \square \\ | \\ -C-OR \end{array}$       c)  $-NH_2$       d) OH
19. Fats are ester of \_\_\_\_ ( )  
a) Fatty Acids      b) Nutrients      c) Vitamins      d) None

20. Which of the following is Alkane? ( )  
a)  $C_4H_{10}$       b)  $C_4H_8$       c)  $C_4H_6$       d)  $C_6H_6$
21. Methane is the major constituent of \_\_\_\_\_ ( )  
a) Petroleum Gas    b) Coal Gas      c) Water gas      d) Biogas
22. First organic compound prepared in laboratory ( )  
a) Ammonium Cyanate      b) Urea      c) Amide      d) Imide
23.  $CH_4$  structure \_\_\_\_\_. ( )  
a) Tetrahedral      b) Trigonal      c) Planar      d) Leviair
24. In allotropes of carbon which acts as a good conductor of electricity? ( )  
a) Diamond      b) Graphite      c) Fullerenes      d) None
25. In allotropes of 'C' which is hard material? ( )  
a) Diamond      b) Graphite      c) Fullerenes      d) None
26. In the Graphite two layers are separate by the distance of? ( )  
a)  $3.35\text{\AA}$       b)  $3.00\text{\AA}$       c)  $4.0\text{\AA}$       d)  $5.0\text{\AA}$
27. What is the bond angle of methane ( )  
a)  $104^\circ.36^1$       b)  $109^\circ.28^1$       c)  $120^\circ$       d)  $180^\circ$

**Answers**

- 1) Vinegar      2) Hydrogen      3) Higher Fatty Acids  
4) Three      5) Synthetic Detergent      6) Ester  
7)  $C_2H_2$       8) Rectified Spirit      9) Functional  
10) Alkene      11) Alkanes      12) Un-Saturated Compounds  
13)  $CH_3COOC_2H_5$       14) Nickel      15) Sumio Lijima  
16) b      17) b      18) c      19) a      20) a      21) d  
22) b      23) a      24) b      25) a      26) a      27) b