

**B.Sc Second Year (Semester-III)**  
**Organic Chemistry**

1. The alkaline hydrolysis of fats or oil is called .....  
(a) Hydrogenation                           **(b) Saponification**  
(c) Transesterification                      (d) Rancidity
2. The degree of unsaturation of fat or oil is measured by its .....  
**(a) Iodine value**                           (b) Saponification value  
(c) Acid value                               (d) None of these
3. Synthetic detergents called as .....  
(a) Hard soap                               (b) Soft soap  
**(c) Syndets**                               (d) None of these
4. The number of milligrams of potassium hydroxide (KOH) required to completely saponify 1 gram of fat or oil is called .....  
(a) Acid value                               **(b) Saponification value**  
(c) Iodine value                             (d) None of these
5. Toluene on oxidation with  $\text{KMnO}_4$  to form .....  
(a) Phthalic acid                           **(b) Benzoic acid**  
(c) Anthranilic acid                       (d) Salicylic acid
6. o-xylene on oxidation with  $\text{KMnO}_4$  gives .....  
(a) Salicylic acid                           (b) Anthranilic acid  
(c) Benzoic acid                           **(d) Phthalic acid**
7. o-nitro benzoic acid on reduction with  $\text{Sn}/\text{HCl}$  gives .....  
(a) Benzoic acid                           (b) Phthalic acid  
**(c) Anthranilic acid**                       (d) Salicylic acid
8. When Salicylic acid on heating with soda-lime, it gives .....  
**(a) Phenol**                               (b) Phthalic acid  
(c) Benzoic acid                           (d) Anthranilic acid
9. ..... is also called salicylic acid.  
(a) o-amino benzoic acid               **(b) o-hydroxy benzoic acid**  
(c) Benzoic acid                           (d) Aniline
10. In ketones, carbonyl carbon is ..... hybridized.  
(a) SP                                       **(b)  $\text{SP}^2$**   
(c)  $\text{SP}^3$                                    (d)  $\text{SP}^2\text{d}$
11. Benzene react with ..... gives acetophenone.  
(a) Acetic acid                           (b) Acetone  
**(c) Acetyl chloride**                       (d) Carbon monoxide
12. Benzaldehyde on reduction with  $\text{LiAlH}_4$  gives .....  
**(a) Benzyl alcohol**                       (b) Phenol  
(c) Ethyl alcohol                           (d) Benzene
13.  $\text{LiAlH}_4$  reduces ketone to .....



- (c) Phthalic anhydride                          (d) None of these
27. Natural fats and oils are ..... of glycerol.  
(a) Diesters                                      (b) Triesters  
(c) Tetraesters                                    (d) Monoesters
28. Sodium or potassium salts of fatty acids are called as .....  
(a) Oils    (b) Fats  
(c) Detergents                                    (d) Soaps
29. Dimethyl zinc reacts with formaldehyde to give .....  
(a) Propanone                                     (b) 1-propanol  
(c) 2-propanol                                    (d) Ethanol
30. When ethyl iodide reacts with zinc in presence of  $\text{CO}_2$ , it gives .....  
(a)  $(\text{CH}_3)_2\text{Zn}$                                 (b)  $\text{C}_2\text{H}_5\text{Zn}$   
**(c)  $(\text{C}_2\text{H}_5)_2\text{Zn}$**     (d)  $\text{CH}_3\text{Zn}$
31. Methyl iodide react with Mg metal, to give .....  
(a)  $\text{CH}_3\text{-Mg-Br}$                                 **(b)  $\text{CH}_3\text{-Mg-I}$**
32. Oxidation of acetophenone using ..... reagent is called Baeyer-villiger oxidation.  
(a)  $\text{KMnO}_4/\text{H}_2\text{SO}_4$                             (b)  $\text{K}_2\text{Cr}_2\text{O}_7/\text{H}_2\text{SO}_4$   
**(c)  $\text{CH}_3\text{COOOH}$**     (d)  $\text{MnO}_2/\text{HCl}$
33. Acetophenone on Clemmensen reduction with  $\text{Zn-Hg}/\text{HCl}$  gives .....  
(a) Benzaldehyde                                    **(b) Ethyl benzene**  
(c) Benzoyl alcohol                                (d) Methyl benzene
34. Benzene react with HCN and HCl in presence of  $\text{AlCl}_3$  gives .....  
**(a) Benzaldehyde**                                    (b) Formaldehyde  
(c) Benzoic acid                                      (d) Acetophenone