



16.1. Sleeping pills are recommended by doctors to the patients suffering from sleeplessness but it is not advisable to take its doses without consultation with the doctor. Why?

Ans: Most of drugs taken in doses higher than recommended may produce harmful effects and act as poison and cause even death. Therefore, a doctor must always be consulted before taking the drug.

16.2. With reference to which classification has the statement “ranitidine is an antacid”, been given?

Ans: This statement refers to the classification of drugs according to pharmacological effect because any drug which will be used to neutralise the excess acid present in the stomach will be called an antacid.

16.3. Why do we require artificial sweetening agents?

Ans: To reduce calorie intake and to protect teeth from decaying, we need artificial sweeteners.

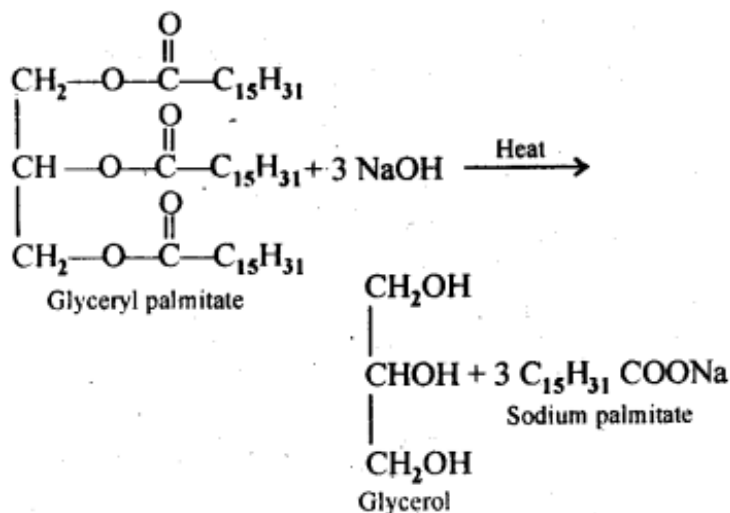
16.4. Write the chemical equation for preparing sodium soap from glyceryl oleate and glyceryl palmitate. Structures of these compounds are given below:

(i) $(C_{15}H_{31}COO)_3C_3H_5$ -Glyceryl palmitate

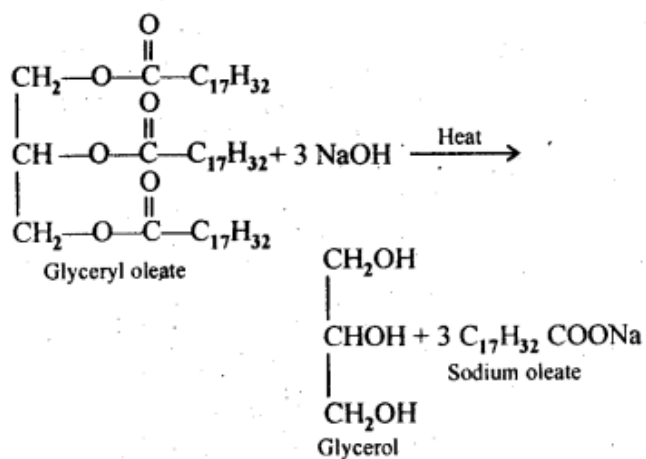
(ii) $(C_{17}H_{33}COO)_3C_3H_5$ -Glyceryl oleate

Ans:

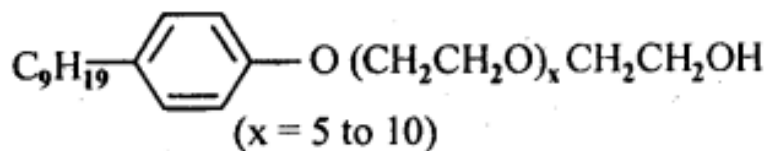
(i)



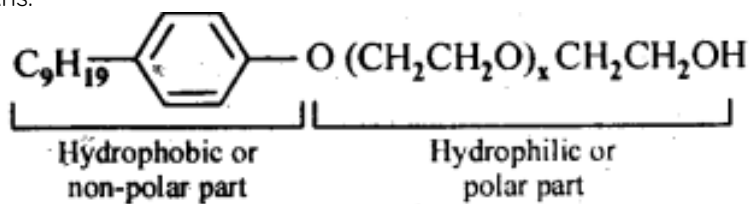
(ii)



16.5. Following type of non-ionic detergents are present in liquid detergents, emulsifying agents and wetting agents. Label the hydrophilic and hydrophobic part in the molecule. Identify the functional group (s) present in the molecule.



Ans:



Functional groups present in the detergent molecule are:

- (i) ether
- (ii) 1°alcoholic group

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