## **Exemplar Problem- 2**

Glyceryl oleate

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

- $(C_{15}H_{31}COO)_3C_3H_5 Glyceryl\ palmitate$ (i)
- $(C_{17}H_{32}COO)_3C_3H_5$  Glyceryl oleate (ii)

1. 
$$CH_{2}-O-C-C_{15}H_{31}$$
  $CH_{2}OH$ 

| O | | CH-O-C-C<sub>15</sub>H<sub>31</sub> + 3NaOH heat CHOH + 3C<sub>15</sub>H<sub>31</sub>COONa
| CH<sub>2</sub>OH CH