

QUESTION 13 (10 MARKS)

Answer the following question

13.1
13.2
13.3

13.1.1 $\text{CH}_3\text{COOH} + \text{CH}_3\text{COOH} \rightleftharpoons \text{CH}_3\text{COOCH}_2\text{CH}_3 + \text{H}_2\text{O}$

13.1.2 $\text{CH}_3\text{COOH} + \text{CH}_3\text{COOH} \rightleftharpoons \text{CH}_3\text{COOCH}_2\text{CH}_3 + \text{H}_2\text{O}$

13.1.3 $\text{CH}_3\text{COOH} + \text{CH}_3\text{COOH} \rightleftharpoons \text{CH}_3\text{COOCH}_2\text{CH}_3 + \text{H}_2\text{O}$

13.2.1
13.2.2
13.2.3

13.3.1
13.3.2
13.3.3