

sheet.

OR

- Q.4** (a) Discuss ion exchange process for water conditioning. **03**
- (b) Explain the major engineering problems involved in manufacturing process of Methanol. **04**
- (c) Explain the process to manufacture butyraldehyde through hydroformylation route. **07**

- Q.5** (a) Discuss the steps involved in manufacturing of wine. **03**
- (b) Discuss manufacturing process of beer with help of neat flow sheet. **04**
- (c) Explain the manufacturing process of Ammonia with a process flow diagram. **07**

OR

- Q.5** (a) Mention major engineering problems and uses of urea. **03**
- (b) Discuss manufacturing of Absolute alcohol using azeotropic distillation process. **04**
- (c) Explain manufacturing process of sulphuric acid with help of neat flow sheet. **07**
