

- Q.4.**
- (a) What is sucrose? With a process flow diagram, briefly describe the manufacture of sucrose from sugarcane. **07**
 - (b) Draw the structure of D-(+)-glucose. State its general properties and uses. **04**
 - (c) What are stereoisomers? Giving suitable examples, discuss the types of stereoisomers. **03**
- Q.5.**
- (a) Discuss about the general physical properties and chemical properties of carboxylic acids. **07**
 - (b) Give a method of manufacture of ethylacetoacetate. Discuss about its structure. With an illustration, explain how it is useful in synthesizing other organic compounds. **04**
 - (c) Write a short note on proteins. **03**
- OR**
- Q.5.**
- (a) Giving examples and uses of each type, discuss the classification of dyes on the basis of applications **06**
 - (b) Stating the relation between colour and constitution, briefly discuss the molecular orbital (MO) theory of colour of dyes. **04**
 - (c) What is soap? Giving reactions, briefly describe the manufacture of soap **04**
