

D45

B. Tech. EXAMINATION, 2020

(Fourth Semester)

(B Scheme)

(Re-appear Only)

CHE

CH202B

UNIT PROCESSES

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. Name various chlorinating agents. Explain the chlorination rules for paraffins in halogenation with chlorine gas. 15
2. With the help of a suitable flow sheet, describe manufacturing process of Chloroacetic acid. 15

Unit II

3. Differentiate hydrogenation and hydrogenolysis. Discuss hydrogenation of carbonyls. 15

4. What do you mean by hydrogenation of oils and hardening of fats ? Discuss high pressure autoclave used in hydrogenation process. **15**

Unit III

5. Describe the various products obtained from liquid phase nitration of olifines and acetylene. Comment upon the advantages of liquid phase nitration process. **15**
6. Name various types of oxidation reactions. Discuss the role of permangnate as oxidising agent in chemical industry. **15**

Unit IV

7. Attempt the following :
(a) Advantages and disadvantages in using SO_3 as sulphonating agent
(b) Construction and working of Ball mil sulphonator. **15**
8. Discuss various types of equipments used in alkylation process. Draw their sketches. **15**