

Total No. of Pages: 02
Seventh Semester
End Semester Supplementary Examination
PT407 Chemical Process Technology

Roll No.
B. Tech. (PT)
(Feb.-2019)

Time: 3hr

Max. Marks: 40

NOTE: Answer Any FIVE questions.
Assume suitable missing data if any.

1. (a) Draw the schematic representations of the following Unit Operations:
i] Continuous Fractionator ii] Centrifugal Pump
iii] Screw Conveyer. 3
(b) Write the chemical reactions involved during hydrogenation of oils. 2
(c) Which additives are used as Detergent builders to improve the performance? 2

2. (a) Write the uses of following:
i] Spray drier ii] Wet scrubber 2
(b) Comment on current scenario of Sugar industry in India. 5
3. (a) Define Sweet water. What are its end uses? 3
(b) What is the problem in storage of Sugar Canes? 2
(c) Write the raw materials sources for sulphuric acid manufacture. 2
4. (a) Discuss major engineering problems encountered in Electrolytic process for sodium hydroxide and chlorine production. 5
(b) Comment on the by-product recovery from the pulp industry. 2
5. (a) Explain the Paper manufacturing process with the help of neat flow diagram. 6

P.T.O.

- (b) What are the major oil seeds produced in India? 1
6. (a) List the difficulties faced by paper industry in India. 3
- (b) Calculate the weights of raw materials required (in tons) for manufacturing 1000 tons of Superphosphate fertilizer per day. 3
- (c) Write the uses of bagasse in sugar industry. 1

END

