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Examination December - 2020

M.Sc. Semester - III

Industrial Chemistry: Paper – IC – 11, Code: 3568 Subject Title: Unit operations & Unit processes – II

0 9 DEC 202U [Total Marks: 42 Time: 1.30 hr] What is drying? Discuss construction and working of spray dryer [14] Que.1 (A) with neat. Sketch. OR Explain two types of filtration method in detail. [07] (A-I)Que.1 [07] How does tray dryer work? Explain it with neat sketch. (A-II)[14] What is distillation? Discuss fractional distillation system with Que.2 (A) figure. OR How distillation and extraction differentiate from each other? (Give [07] Oue.2 (A-I)at least 7 points) Write a short note on bubble cap tray with figure. [07] (A-II) What is oxidation? How Acetic acid is industrially produced by [14] Que.3 (A) oxidation unit process? OR Elaborate mechanism of Nitration unit process with example. [07] Que.3 (A-I)[07] What is mechanical separation? Discuss trommel separator with (A-II) figure. What is reduction? How Xylidine is industrially produced? [14] Oue.4 (A) OR [07] Illustrate the mechanism of esterification with example. Que.4 (A-I) [07] (A-II) Explain bag filter in detail.

नोधः

- પ્રશ્નપત્રનો સમય ૧.૩૦ કલાકનો રહેશે.
- પ્રશ્નપત્રમાં ૪ પ્રશ્નોમાંથી કોઇ પણ ત્રણ પ્રશ્નોના જવાબ આપવાનો ૨હેશે.
- દરેક પ્રશ્નના ગુણ એકસરખા (૧૪ માર્કના) રહેશે. પ્રશ્નપત્ર કુલ ૪૨ માર્કસ નું રહેશે.