Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY M. PHARM. - SEMESTER - I • EXAMINATION - WINTER 2012

Date: 11/01/2013

Subject code: 910208 **Subject Name: Industrial Pharmacy - II** Time: 10.30 am - 01.30 pm **Total Marks: 80 Instructions:** 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. **Q.1** (a) Write significance of pilot plant scale up study. Discuss about large **10** scale manufacturing techniques of tablets. Write a short note on technology transfer: Pilot plant to production. 06 (b) **Q.2** (a) Describe general layout and facilities requirement of pharmaceutical 08 pilot plant. Describe schedule M requirements of GMP plant in pharmaceutical 08 (b) industries. 0.3 Discuss on safety measures and pollution control measures 10 (a) applicable in pharmaceutical industries. Write a detail note on sources & prevention of electrical hazards. (b) 06 **Q.4** (a) Explain COD. Discuss monitor and controls for COD of industrial 06 waste water. (b) 05 Discuss important parameters to be considered in scale up operation. Describe various methods to prevent chemical hazards. 05 (c) **Q.5** Write in detail note on various techniques used in inventory 10 (a) management. Discuss the cost control elements in production management. (b) 06 **O.** 6 Explain BOD. Discuss monitor and controls for BOD of industrial 06 (a) waste water. Discuss role of personnel in production management. 05 (b) Discuss environmental factors influencing on production 05 (c) management. 0.7 (a) Discuss preventive maintenance, predictive maintenance in **06** production. Discuss about sales forecasting. (b) 05 (c) Write a short note on documentation importance in maintenance. 05
