

Seat No.: _____

Enrolment No. _____

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

Subject code: 910208

Date: 11/01/2013

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.

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|-------------|-----|--|-----------|
| Q.1 | (a) | Write significance of pilot plant scale up study. Discuss about large scale manufacturing techniques of tablets. | 10 |
| | (b) | Write a short note on technology transfer: Pilot plant to production. | 06 |
| Q.2 | (a) | Describe general layout and facilities requirement of pharmaceutical pilot plant. | 08 |
| | (b) | Describe schedule M requirements of GMP plant in pharmaceutical industries. | 08 |
| Q.3 | (a) | Discuss on safety measures and pollution control measures applicable in pharmaceutical industries. | 10 |
| | (b) | Write a detail note on sources & prevention of electrical hazards. | 06 |
| Q.4 | (a) | Explain COD. Discuss monitor and controls for COD of industrial waste water. | 06 |
| | (b) | Discuss important parameters to be considered in scale up operation. | 05 |
| | (c) | Describe various methods to prevent chemical hazards. | 05 |
| Q.5 | (a) | Write in detail note on various techniques used in inventory management. | 10 |
| | (b) | Discuss the cost control elements in production management. | 06 |
| Q. 6 | (a) | Explain BOD. Discuss monitor and controls for BOD of industrial waste water. | 06 |
| | (b) | Discuss role of personnel in production management. | 05 |
| | (c) | Discuss environmental factors influencing on production management. | 05 |
| Q.7 | (a) | Discuss preventive maintenance, predictive maintenance in production. | 06 |
| | (b) | Discuss about sales forecasting. | 05 |
| | (c) | Write a short note on documentation importance in maintenance. | 05 |
