

GUJARAT TECHNOLOGICAL UNIVERSITY
M. Pharm. – SEMESTER – I • EXAMINATION – WINTER 2013

Subject Code: 910208**Date: 26-12-2013****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 injectables. | 06 |
| | (b) | Describe general layout and facilities requirements of pilot plant. | 05 |
| | (c) | Write note on technology transfer: Pilot plant to production. | 05 |
| Q.2 | (a) | Discuss the cost control elements in production management. | 06 |
| | (b) | Write a short note on documentation importance in maintenance. | 05 |
| | (c) | Discuss vendor development capacity assessment for raw materials to be used in semisolids. | 05 |
| Q.3 | (a) | Write in detail note on various techniques used in inventory management. | 06 |
| | (b) | Define EOQ. Discuss advantages and limitation of this system. | 05 |
| | (c) | Explain production scheduling and forecasting. | 05 |
| Q.4 | (a) | Discuss the management of scrap disposal in pharmaceutical plant. | 06 |
| | (b) | Classify types of management and discuss material management in detail. | 05 |
| | (c) | Classify maintenance and discuss in detail preventive maintenance. | 05 |
| Q.5 | (a) | Explain COD. Discuss monitor and controls for COD of industrial waste water. | 06 |
| | (b) | Discuss the role of personnel in production management. | 05 |
| | (c) | Discuss environmental factors influencing on production management. | 05 |
| Q. 6 | (a) | Classify the industrial hazards and discuss fundamentals of accident prevention. | 06 |
| | (b) | Write a detail note on sources & prevention of electrical hazards. | 05 |
| | (c) | Discuss on safety measures and pollution control measures applicable in pharmaceutical industries. | 05 |
| Q.7 | (a) | Justify: Pilot plant and industrial scale equipments does not create any problem with the equipment design. | 06 |
| | (b) | Importance of stability parameter in scale up techniques. | 05 |
| | (c) | Discuss product uniformity parameter of dosage form during scale up techniques | 05 |
