

GUJARAT TECHNOLOGICAL UNIVERSITY**M. Pharm - SEMESTER-I • EXAMINATION – SUMMER -2015****Subject Code: 910208****Date: 25-05-2015****Subject Name: Industrial Pharmacy - II****Time: 02:30 pm to 05:30 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) | Discuss general requirements for manufacturing of injectable dosage form. | 06 |
| | (b) | Give significance of pilot plant scale up in pharmaceutical industry. | 05 |
| | (c) | Explain scale up of semisolid dosage form. | 05 |
| Q.2 | (a) | Discuss on technology transfer: Pilot plant to production. | 06 |
| | (b) | Write in brief about stability aspects of oral liquids during scale-up. | 05 |
| | (c) | Explain vendor development capacity assessment for machines. | 05 |
| Q.3 | (a) | What is production scheduling? Explain with suitable example. | 06 |
| | (b) | Discuss role and responsibilities of personnel in production management. | 05 |
| | (c) | Enlist the factors affecting production management. | 05 |
| Q.4 | (a) | Discuss the maintenance of material handling equipments. | 06 |
| | (b) | Define the term 'Inventory management'. Discuss EOQ in detail. | 05 |
| | (c) | Write a short note on sales forecasting. | 05 |
| Q.5 | (a) | Give significance of documentation in pharmaceutical manufacturing. | 06 |
| | (b) | Explain cost control elements in production management. | 05 |
| | (c) | Discuss corrective maintenance and scheduled maintenance in production. | 05 |
| Q. 6 | (a) | Discuss fire prevention and its control. | 06 |
| | (b) | Define COD. Discuss monitor and controls of it for industrial waste water. | 05 |
| | (c) | Models for selective inventory. | 05 |
| Q.7 | (a) | Discuss electrical hazards and give preventive measure for it. | 06 |
| | (b) | Write note on prevention of chemical hazards in pharmaceutical industry. | 05 |
| | (c) | Effluents treatment in pharmaceutical industry. | 05 |
