

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. – SEMESTER – III • EXAMINATION – SUMMER • 2015

Subject Code: 930108

Date: 13-05-2015

Subject Name: Industrial Pharmacy - V

Time: 02:30 pm - 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) | Describe production of pellets by extrusion spheronization process with flow chart. | 08 |
| | (b) | Discuss principle variables affecting product quality in extrusion spheronization. | 08 |
| Q.2 | (a) | Discuss the hazards associated with maintenance. | 06 |
| | (b) | Write a short note on hot melt extrusion. | 05 |
| | (c) | Write construction & working of centrifugal fluid bed granulator. | 05 |
| Q.3 | (a) | Discuss preventive measures for the hazards associated with maintenance. | 06 |
| | (b) | Write a short note on Rotary cylinder extruder. | 05 |
| | (c) | Write a short note on laser printing. | 05 |
| Q.4 | (a) | Explain stages of reverse phase evaporation method for liposomes preparation by flow chart. | 06 |
| | (b) | Explain stages of ether injection method of niosomes preparation by flow diagram. | 05 |
| | (c) | Explain fabrication techniques and equipments used in manufacturing of transdermal drug delivery system. | 05 |
| Q.5 | (a) | Describe preparation method of buccal bio-adhesive drug delivery system with flow chart. | 06 |
| | (b) | Describe manufacturing technology of elementary osmotic pump. | 05 |
| | (c) | Describe manufacturing process technology of floating drug delivery. | 05 |
| Q. 6 | (a) | Write about ALU-ALU packaging materials and technology. | 06 |
| | (b) | Write a short note on FFS technology applied in parenterals. | 05 |
| | (c) | Discuss process and product parameters of rate controlled drug delivery system. | 05 |
| Q.7 | (a) | Discuss supercritical fluid applications in production of particulate drug delivery technology. | 06 |
| | (b) | Write a short note on lyophilized products. | 05 |
| | (c) | Describe Blow – Fill Seal Process. | 05 |
