

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
D. Pharm. – SEMESTER – I • EXAMINATION – WINTER • 2014

Subject Code: 410001

Date: 22-12-2014

Subject Name: Pharmaceutics - I

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) | Define aerosol. Write about classification and composition of aerosol. | 06 |
| | (b) | Define Dosage form. Write down advantages and disadvantages of liquid and solid dosage form. | 05 |
| | (c) | Define Isotonicity. How to adjust isotonicity in brief. | 05 |
| Q.2 | (a) | Define size reduction. Write about ball mill in brief. | 06 |
| | (b) | Define size separation. Write about elutriation method for size separation. | 05 |
| | (c) | Discuss briefly about Indian Pharmacopoeia. | 05 |
| Q.3 | (a) | Define tablet. Discuss problems and remedies associated with tablet manufacturing. | 06 |
| | (b) | Discuss factor affecting filtration. | 05 |
| | (c) | Differentiate simple maceration and modifies maceration. | 05 |
| Q.4 | (a) | Discuss soft gelatine capsule in brief. | 06 |
| | (b) | Define distillation. Discuss preparation of purified water. | 05 |
| | (c) | Write a note on freeze drying. | 05 |
| Q.5 | (a) | Discuss quality control parameter of tablet. | 06 |
| | (b) | Define immunity. Write down classification of immunological products. | 05 |
| | (c) | Define evaporation. Discuss regarding evaporating still. | 05 |
| Q. 6 | (a) | Define sterilization. Write down classification of sterilization. | 06 |
| | (b) | Write about homogenizer in brief. | 05 |
| | (c) | Write a note on fractional distillation. | 05 |
| Q.7 | (a) | Define tablet. Write down classification of tablet with example. | 06 |
| | (b) | Discuss regarding continuous hot percolation. | 05 |
| | (c) | Write about sugar coating of tablet. | 05 |
