| Seat No.: | Enrolment No |
|-----------|--------------|
|-----------|--------------|

Subject Code: 410001

GUJARAT TECHNOLOGICAL UNIVERSITY DIPLOMA PHARMACY – SEMESTER – I-EXAMINATION – WINTER 2015

Date: 17/12/2015

| Subject Name: Pharmaceutics - I Time: 10:30 AM TO 1:30 PM Instructions: Total Marks: 8 | | | | | |
|---|---|--|----|--|--|
| 2 | Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. | | | | |
| Q.1 | (a) | What is size reduction? Give the objectives of size reduction. Discuss the | 06 | | |
| | (b) | factors affecting size reduction process. Give ideal characteristics of materials used for pharmaceutical packaging. Briefly describe different types of containers. | 05 | | |
| | (c) | Write a note on packaging of Aerosol. | 05 | | |
| Q.2 | (a) | Discuss the various factors affecting the rate of evaporation. Write a note on evaporating stills. | 06 | | |
| | (b) | What is metrology? Write the equivalent of household measures in different system. | 05 | | |
| | (c) | Discuss principle, working, applications, advantages and disadvantages of Ball mill with suitable diagram. | 05 | | |
| Q.3 | (a) | Define Sterilization. Classify different methods of sterilization. Write briefly on Moist heat sterilization. | 06 | | |
| | (b) | Discuss principle, working, applications, advantages and disadvantages of Fluidized bed dryer with suitable diagram. | 05 | | |
| | (c) | Enlist different types of distillation process. Briefly describe steam distillation. | 05 | | |
| Q.4 | (a) | Differentiate followings. (Any Two) 1) Syrup IP and Syrup USP 2) Active immunity and Passive immunity 3) Evaporation and Distillation | 06 | | |
| | (b) | Classify different dosage forms. Write in detail about solid dosage forms with its advantages and disadvantages. | 05 | | |
| | (c) | Define Extraction. Enlist different methods for extraction. Discuss percolation method in detail. | 05 | | |
| Q.5 | (a) | Define Tablet. Enumerate different types of Tablets. Write in detail about the evaluation tests for tablet (any three). | 06 | | |
| | (b) | Define mixing. Give the classification of mixer. Discuss any one Mixer used in pharmaceutical industry. | 05 | | |
| | (c) | Briefly discuss Novel Drug Delivery System. | 05 | | |

| Q. 6 | (a) | Define capsule. Give the classification of capsule. Write a note on soft gelatin capsule. | 06 |
|---------|------------|---|----------|
| | (b) (c) | What do you mean by Immunity? Discuss various factors affecting immunity. Write a note on defects in tablets. | 05 05 |
| Q.7 (a) | | Define Filtration. Discuss various factors affecting the rate of filtration. Write a | 06 |
| | (b) | which do you mount of sieve sieve endinered various intentions of sieve | 05 |
| | (c) | separation. Discuss the Elutriation method of size separation in brief. Write a note on Colloidal mill. | 05 |
