

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Pharmacy (First Year) - Examination –May/June- 2011

Subject code: 410001

Subject Name: Pharmaceutics - I

Date: 26/05/2011

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 Tablets. Enumerate Various Classes of Tablets. Write briefly on Implants. | 06 |
| | (b) | Enumerate various tablet excipients with suitable examples. | 05 |
| | (c) | Write a note on Compression Cycle. | 05 |
| Q.2 | (a) | Discuss mechanisms of Size Reduction. | 06 |
| | (b) | Write a detailed note on Pharmacopoeia | 05 |
| | (c) | Discuss principle, working, Advantages and Disadvantages of Ball Mill. | 05 |
| Q.3 | (a) | Classify methods of Sterilization. Write briefly on Sterilization by Filtration | 06 |
| | (b) | Discuss in detail Evaporating Pan OR Fluid Bed Dryer | 05 |
| | (c) | Write a note on Steam Distillation Process | 05 |
| Q.4 | (a) | Write in detail Sugar Coating of tablets | 06 |
| | (b) | Discuss types of Immunity. | 05 |
| | (c) | Write a note on Transdermal Drug Delivery | 05 |
| Q.5 | (a) | Differentiate followings.. (Any Two)
1. Syrup IP and Syrup USP
2. Dry and Wet Granulation Techniques
3. Vaccines and Sera | 06 |
| | (b) | Describe briefly Percolation and Maceration processes of extraction. | 05 |
| | (c) | Write a note on Defects in tablets. | 05 |
| Q. 6 | (a) | Discuss the methods of Size Separation in brief. | 06 |
| | (b) | Write a note on Filter Leaf. | 05 |
| | (c) | Discuss any one Mixer used in pharmaceutical industry. | 05 |
| Q.7 | (a) | Describe the process of manufacturing of Soft capsules. | 06 |
| | (b) | Discuss Hardness test OR Friability Test for tablets | 05 |
| | (c) | Write a note on Aerosols. | 05 |
