

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 8- EXAMINATION –WINTER - 2018

Subject Code: 2280002

Date: 17/11/2018

Subject Name: Pharmaceutical Technology 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) | Describe role of diluents in tablet manufacturing. Discuss directly compressible diluents with suitable examples. | 06 |
| | (b) | Enlist types of tablet coating. Describe process variables for pan coating. | 05 |
| | (c) | Describe multistation rotary tablet compression cycle with diagram. | 05 |
| Q.2 | (a) | What are objectives of enteric coating? Describe polymers used for enteric coating. | 06 |
| | (b) | Discuss in brief Pharmacopoeial tests for tablet. | 05 |
| | (c) | Write in details about colon drug delivery tablets and its evaluation. | 05 |
| Q.3 | (a) | Define Capsules. Write the quality control tests on Hard Gelatin Capsules. | 06 |
| | (b) | Explain various sizes & compositions of hard gelatin capsules. | 05 |
| | (c) | Explain the various techniques used in the preparation of microspheres. | 05 |
| Q.4 | (a) | Discuss formulation of soft gelatin capsule shell. | 06 |
| | (b) | Enlist methods of pelletization. Explain cold extrusion technology in detail. | 05 |
| | (c) | Discuss Applications of Extrusion in the pharmaceutical field. | 05 |
| Q.5 | (a) | Explain use of PEO & MCC in pelletization. | 06 |
| | (b) | What is SCF? Discuss its pharmaceutical application. | 05 |
| | (c) | Write short note on techniques of SCF and one equipment for SCF processing. | 05 |
| Q. 6 | (a) | Explain the regulatory requirements in pharmaceutical packaging. | 06 |
| | (b) | Explain tamper proof packaging | 05 |
| | (c) | Write on any two: 1) Diluents 2) Disintegrants 3) Binders | 05 |
| Q.7 | (a) | Write a note on ready to use pellets available in market. | 06 |
| | (b) | Write brief note on importance of microsphere in Pharmacy. | 05 |
| | (c) | Differentiate compression & consolidation. | 05 |
