

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.**

- 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**
