

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – VIII • EXAMINATION – WINTER • 2016

Subject Code: 2280002**Date: 22-11-2016****Subject Name: Pharmaceutical Technology - II****Time: 02:30 pm - 05:00 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) What are objectives of enteric coating? Describe polymers used for enteric coating. **06**
- (b) Discuss in brief following tests for tablet: **05**
1) Disintegration test
2) Dissolution test
- (c) Enumerate defects observed in tablet compression process. **05**
- Q.2** (a) Write in details about colon drug delivery tablets and its evaluation **06**
- (b) Write advantages and disadvantages of tablets. **05**
- (c) Describe biodegradable and non-biodegradable polymers used in microcapsules **05**
- Q.3** (a) Explain term microcapsule. Discuss in detail phase coacervation phenomena for preparation of microcapsules **06**
- (b) Write application of extrusion in Pharmacy. **05**
- (c) Write brief note on importance of microsphere in Pharmacy **05**
- Q.4** (a) Write on any two: 1) binders 2) disintegrants 3) lubricants **06**
- (b) Define capsules and write quality control tests on hard gelatin capsules **05**
- (c) Discuss role of polyethylene oxide and eudragit in melt extrusion **05**
- Q.5** (a) Write factors affecting on pellet properties. **06**
- (b) Write a brief note on the size of capsules. **05**
- (c) Explain extrusion and Pelletization and describe equipment used for it. **05**
- Q. 6** (a) Define super critical fluid and discuss its pharmaceutical application. **06**
- (b) Write short note on techniques of SCF and one equipment for SCF processing. **05**
- (c) Differentiate Primary and secondary packaging with suitable examples. **05**
- Q.7** (a) Discuss regulatory requirements in pharmaceutical packaging **06**
- (b) Explain tamper proof packaging **05**
- (c) Write a brief note on stability aspects of packing. **05**
