

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. - SEMESTER-8 • EXAMINATION – SUMMER -2018**

**Subject Code: 2280002****Date: 30/04/2018****Subject Name: Pharmaceutical Technology II****Time: 10:30 AM TO 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.

- Q.1** (a) Define and Classify Tablet. Write a note on soluble Tablets. **06**  
(b) Describe excipients of tablets with give at least two brand name of each. **05**  
(c) Write a short note on compression and consolidation **05**
- Q.2** (a) Write a note on tablet tooling. **06**  
(b) Explain in details about evaluation of tablets **05**  
(c) What are types of tablet coating? Write a note on equipment for coating of tablets. **05**
- Q.3** (a) Differentiate terms microcapsule and Microspheres. Discuss in details on coacervation phase phenomena. **06**  
(b) Write a short note on characterization of microspheres. **05**  
(c) Compare hard gelatin capsules with soft gelatin capsules. **05**
- Q.4** (a) Explain size of capsules and write a note on problem and remedies in capsules **06**  
(b) Write application of extrusion in Pharmacy. **05**  
(c) Explain extrusion and pelletization and describe equipment used for it. **05**
- Q.5** (a) What are the role of polyethylene oxide, Eudragit and MCC in extrusion and pelletization? **06**  
(b) Define super critical fluid and discuss its pharmaceutical application. **05**  
(c) Write note on techniques of SCF and one equipment for SCF processing. **05**
- Q. 6** (a) Differentiate Primary and secondary packaging with suitable examples. **06**  
(b) Write a note on regulatory requirements in pharma packaging. **05**  
(c) Discuss about packaging materials and equipments. **05**
- Q.7** (a) What are objectives of enteric coating? Describe polymers used for enteric coating. **06**  
(b) Write a note on ready to use pellets available in market. **05**  
(c) Describe biodegradable and non-biodegradable polymers used in microcapsules **05**

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