

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 8 EXAMINATION – WINTER -2019

Subject Code: 2280002**Date: 16-11-2019****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) Write in details about matrix tablet and its evaluation. **06**
(b) Give objectives of tablet coating. **05**
(c) Explain physics of tablet formation. **05**
- Q.2** (a) Explain in brief defects in tablet formation. **06**
(b) Write advantages and disadvantages of tablets. **05**
(c) Discuss different film coating defects. **05**
- Q.3** (a) What is Pelletization? Discuss factors affecting pellet properties. **06**
(b) Write a brief note on the size of capsules. **05**
(c) Discuss different granulation techniques for tablets. **05**
- Q.4** (a) Write a note on coacervation- Phase separation technique for microencapsulation. **06**
(b) Write application of extrusion in Pharmacy. **05**
(c) Explain pharmaceutical application of supercritical fluids in extraction. **05**
- Q.5** (a) Write a note on influence of packaging components on dosage form stability. **06**
(b) Discuss different methods for evaluation of packaging. **05**
(c) Explain tamper proof packaging. **05**
- Q.6** (a) Write on any two: 1) Binders 2) Disintegrant 3) Diluents. **06**
(b) Write short note on techniques of SCF and one equipment for SCF processing. **05**
(c) Explain in brief pharmaceutical tablet compression tooling. **05**
- Q.7** (a) Define capsules and write quality control tests on hard gelatin capsules. **06**
(b) Write a note on Melt Extrusion technology. **05**
(c) Discuss role of polyethylene oxide and eudragit in melt extrusion. **05**
