

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.

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| 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 |
