

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.

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|-------------|--|-----------|
| 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 |
