

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER-VIII EXAMINATION – WINTER -2020

Subject Code: 2280002**Date: 04/01/2021****Subject Name: Pharmaceutical Technology-II****Time: 02:00PM TO 04:00PM****Total Marks: 54****Instructions:**

1. Attempt any **THREE** questions from Q-1 to Q-6.
2. Q.7 is compulsory to attempt.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

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|-------------|---|-----------|
| Q.1 | (a) Define tablets. Give types of tablets. Give in details about formulation of tablets | 06 |
| | (b) Write in brief on granulation techniques | 05 |
| | (c) What are excipients? Write on binders | 05 |
| Q.2 | (a) Give names of machineries used in large scale production of tablets. What is compaction and compression | 06 |
| | (b) Write on disintegrants | 05 |
| | (c) Discuss processing problems of tablets and their remedies | 05 |
| Q.3 | (a) Write on evaluation tests of tablets prescribed by the pharmacopeia | 06 |
| | (b) Give types of coating. Give in brief on film forming materials | 05 |
| | (c) Write on coating process equipments used and coating defects | 05 |
| Q.4 | (a) Give advantages and disadvantages of hard gelatin capsule dosage forms | 06 |
| | (b) Write on size of capsules, capsule filling and quality controls | 05 |
| | (c) What is climatic control during capsule processing in capsule department how are capsules stored? | 05 |
| Q.5 | (a) Write short note on i) Soft gelatin capsules ii) Microspheres | 06 |
| | (b) Give any one method of preparation of microcapsule | 05 |
| | (c) Write on biodegradable and non biodegradable polymers | 05 |
| Q. 6 | (a) What is extrusion. Write on types of extrusion | 06 |
| | (b) Give in details equipments used in extrusion and pelletization | 05 |
| | (c) Write on use of MCC in pelletization | 05 |
| Q.7 | (a) Write on supercritical fluids and their applications in pharmacy | 06 |
| | OR | |
| | (a) What are inclusion complexes. Give examples of the same | 06 |
| | OR | |
| | (a) Discuss preparation of solid dispersions | 06 |
