

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 8 EXAMINATION – SUMMER -2023

Subject Code: 2280002**Date: 03/07/2023****Subject Name: Pharmaceutical Technology II****Time:10.30 a.m. to 1.30 p.m.****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 detail about different in process quality control test for Tablets. | 06 |
| | (b) Write a note on Floating Tablet. | 05 |
| | (c) Discuss in detail about the Granulation Techniques. | 05 |
| Q.2 | (a) Explain different evaluation test for tablets. | 06 |
| | (b) Write a note on mouth dissolving tablets. | 05 |
| | (c) Discuss different coating defects. | 05 |
| Q.3 | (a) Discuss in details on coacervation phase phenomena. | 06 |
| | (b) What is hard capsule? Give comparative advantage and disadvantage of capsules over tablets. Write a note on the size of capsules. | 05 |
| | (c) Compare hard gelatin capsules with soft gelatin capsules. | 05 |
| Q.4 | (a) Explain in detail the factor the affecting pellet properties. | 06 |
| | (b) Write application of extrusion in Pharmacy. | 05 |
| | (c) Write a note on Melt Extrusion technology. | 05 |
| Q.5 | (a) What is solid dispersion? Give pharmaceutical applications of supercritical fluids in extraction. | 06 |
| | (b) Write note on techniques of SCF and one equipment for SCF processing. | 05 |
| | (c) What is the use of MCC in Pelletization. | 05 |
| Q. 6 | (a) Explain in detail Primary and secondary packaging with suitable examples. | 06 |
| | (b) Write a short note on regulatory requirements in pharma packaging. | 05 |
| | (c) Discuss different methods for evaluation of packaging. | 05 |
| Q.7 | (a) Explain in detail different evaluation test for coated tablet. | 06 |
| | (b) Write a note on tablets for colon drug delivery. | 05 |
| | (c) Discuss in detail production of hard gelatin capsule. | 05 |
