

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

Subject Code: 2280002**Date: 04/12/2023****Subject Name: Pharmaceutical Technology II****Time: 02.30 p.m. to 5.30 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) Explain in brief types of tablets with specific characteristics. | 06 |
| | (b) Write the advantages and disadvantages of tablets. | 05 |
| | (c) Write a note on directly compressible excipients used for tablets with examples. | 05 |
| Q.2 | (a) Describe various stages involved in the compression of tablets. | 06 |
| | (b) Explain remedies for the following problems: Poor flow, Mottling. | 05 |
| | (c) Write in brief pharmacopeial evaluation tests for matrix tablets. | 05 |
| Q.3 | (a) Enlist the coating defects of tablets, and write their remedies/ solution. | 06 |
| | (b) Write a note on the pharmaceutical tablet's compression tooling. | 05 |
| | (c) Explain in brief: Primary packaging, tamper-evident packaging with examples. | 05 |
| Q.4 | (a) Describe types of extrusion processes. | 06 |
| | (b) Write applications of extrusion and pelletization. | 05 |
| | (c) Write evaluation tests for packaging material, its importance for stability of the product. | 05 |
| Q.5 | (a) Write specific characteristics of fluid can be used as a supercritical fluid(SF). Describe the basic equipment diagram and working used in SF. | 06 |
| | (b) Write a note of pan coating with reference to film coating. | 05 |
| | (c) Describe supercritical fluid applications in the preparation of inclusion complexes. | 05 |
| Q.6 | (a) Write the advantages and disadvantages of capsules. | 06 |
| | (b) Describe importance of climatic control in capsule department. | 05 |
| | (c) Write applications of biodegradable and nonbiodegradable polymers in pharmaceuticals. | 05 |
| Q.7 | (a) Describe the various preparation stages of coacervation phase separation microencapsulation process. | 06 |
| | (b) Explain capsule filling problems and give its remedies. | 05 |
| | (c) Describe soft capsule manufacturing rotary die process. | 05 |
