

GUJARAT TECHNOLOGICAL UNIVERSITY
B. PHARM. - SEMESTER- VIII • EXAMINATION – SUMMER -2022

Subject Code: 2280002**Date:02/06/2022****Subject Name: Pharmaceutical Technology II****Time: 10:30 AM to 1:30 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 tablet and Classify Tablet. Give objectives of tablet coating. | 06 |
| | (b) Describe filler as excipients for the tablets with give at least two brand name. | 05 |
| | (c) Describe physics of tablet making. | 05 |
| Q.2 | (a) Explain in detail Pharmacopoeial and nonpharmacopoeial evaluation parameter of tablets. | 06 |
| | (b) Enumerate different type of processing problems of tablets and write remedies of capping and laminations defects of tablets. | 05 |
| | (c) Discuss different film coating defects. | 05 |
| Q.3 | (a) Enumerate different size of capsules with volume. Write the quality control tests on Hard Gelatin Capsules. | 06 |
| | (b) What are objectives of enteric coating? Describe polymers used for enteric coating. | 05 |
| | (c) Write a short note on compression and consolidation. | 05 |
| Q.4 | (a) Discuss different hard gelatin capsules defects and remedies. | 06 |
| | (b) Compare hard gelatin capsules with soft gelatin capsules. | 05 |
| | (c) Define microcapsule. Describe working principle of Air suspension microcapsules methods. | 05 |
| Q.5 | (a) Give objectives of packaging material. Explain the regulatory requirements in pharmaceutical packaging. | 06 |
| | (b) Write in detail characterization of microspheres. | 05 |
| | (c) Write a short note on tamper-evident packaging | 05 |
| Q. 6 | (a) Define Pellet. Discuss role of polyethylene oxide and eudragit in melt extrusion. | 06 |
| | (b) Explain factors affecting properties of pellet. | 05 |
| | (c) Enlist methods of pelletization. Explain cold extrusion technology in detail. | 05 |
| Q.7 | (a) Write short note on techniques of SCF and one equipment for SCF processing. | 06 |
| | (b) Write Pharmaceutical applications of supercritical fluids in extraction. | 05 |
| | (c) Describe preparation of solid dispersions by supercritical fluids methods. | 05 |
