

GUJARAT TECHNOLOGICAL UNIVERSITY**B.PHARM - SEMESTER- 8 EXAMINATION – SUMMER -2019****Subject Code: 2280002****Date: 08-05-2019****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) Describe film coating defects in tablets with remedies. | 06 |
| | (b) Explain in brief compression and compaction of tablets. | 05 |
| | (c) Write a note on Tablet compression Tooling. | 05 |
| Q.2 | (a) Discuss in-process quality control tests of tablets. | 06 |
| | (b) Explain in brief capping and lamination defects of tablets. | 05 |
| | (c) Write objectives of coating. Discuss various film forming materials. | 05 |
| Q.3 | (a) Write specific evaluation tests of mouth dissolving tablets & floating tablets. | 06 |
| | (b) Write applications of biodegradable and non biodegradable polymers used in Microcapsules/Microspheres. | 05 |
| | (c) Enumerate the techniques of microencapsulation. Describe working of "Wurster Air Suspension Apparatus". | 05 |
| Q.4 | (a) Explain the defects observed in manufacturing of hard gelatin capsules. | 06 |
| | (b) Write manufacturing process of Hard Gelatin Capsule Shells. | 05 |
| | (c) Describe rotary die process of manufacturing soft gelatin capsule with schematic diagram. | 05 |
| Q.5 | (a) Discuss factors affecting pellet properties. Write Melt extrusion method of pellet preparation. | 06 |
| | (b) Explain : Tamper-evident packaging, Child resistant containers. | 05 |
| | (c) Discuss importance of climatic control in capsule department. | 05 |
| Q. 6 | (a) Explain phase diagram with labeled sketch shows supercritical region with examples. | 06 |
| | (b) Write pharmaceutical applications of supercritical fluid. | 05 |
| | (c) Discuss regulatory requirements in packaging. | 05 |
| Q.7 | (a) Describe the methods for the filling of Hard Gelatin capsules. | 06 |
| | (b) Write a short note on evaluation tests of pharmaceutical packaging materials. | 05 |
| | (c) Describe preparation method of powder from liquid by using supercritical fluids. | 05 |
