

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm. - SEMESTER– VIII• EXAMINATION – SUMMER-2016

Subject Code:2280002

Date:30/04/2016

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. Give Classification of Tablets. Write a note on sizes of Tablets. | 06 |
| | (b) | Write a note on excipients of compressed tablets. | 05 |
| | (c) | What are processing problems and remedies for coated tablets? | 05 |
| Q.2 | (a) | What are IPQC and final evaluation parameters for mouth dissolving and colon targeted tablets? | 06 |
| | (b) | Write a note on use and care of Tablet tooling. | 05 |
| | (c) | What are types of tablet coating? Write a note on equipment for coating of tablets. | 05 |
| Q.3 | (a) | What is hard capsule? Give comparative advantage and disadvantage of capsules over tablets. Write a note on IP Capsules. | 06 |
| | (b) | What is a difference between micro capsules and micro spheres? Write a note on application on biodegradable and non-biodegradable polymers used in that. | 05 |
| | (c) | Write a note on Air suspension technique. | 05 |
| Q.4 | (a) | Compare hard gelatin capsules with soft gelatin capsules. | 06 |
| | (b) | Write a note on IPQC for capsules with special emphasis on dissolution testing. | 05 |
| | (c) | What is cross linking problem in gelatin capsule cells? | 05 |
| Q.5 | (a) | Write a note on excipients used in pellets. | 06 |
| | (b) | What is extrusion and pelletization and describe equipment used in this. | 05 |
| | (c) | Write a note on ready to use pellets available in market. | 05 |
| Q. 6 | (a) | What is solid dispersion? Write limitations of solid dispersion technique. Compare it with inclusion complex. | 06 |
| | (b) | Define super critical fluid. Write about its pharmaceutical application. | 05 |
| | (c) | Write note on techniques of SCF and one equipment for SCF processing. | 05 |
| Q.7 | (a) | What do you understand by primary, secondary and tertiary packaging in pharma with their identification system on it. | 06 |
| | (b) | What is temper evident containers and closures? | 05 |
| | (c) | Write a note on regulatory requirements in pharma packaging. | 05 |
