

GUJARAT TECHNOLOGICAL UNIVERSITY**B.Pharm Practice- Year-I • EXAMINATION – SUMMER-2018****Subject Code: PP105TP****Date: 09/05/2018****Subject Name: Applied Pharmaceutics****Time: 02:30 PM TO 05:30 PM****Total Marks: 60****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 Dosage form. Classify Pharmaceutical Dosage Forms with examples. | 06 |
| | (b) Explain role of GMP & GLP in Manufacturing of Dosage Forms. | 03 |
| | (c) Write in brief about QA & QC. | 03 |
| Q.2 | (a) Define Tablets. Write Advantages and Disadvantages of Tablets. | 06 |
| | (b) Enlist Ingredients used in tablets manufacturing with their specific role. | 03 |
| | (c) Define: Mottling, Capping and Lamination. | 03 |
| Q.3 | (a) Give difference between Emulsion and Suspension. | 06 |
| | (b) Define: Elixir, Solution, Syrup, Liniment, Lotion, Gargles. | 03 |
| | (c) Explain Theory of emulsification. | 03 |
| Q.4 | (a) Write about storage and Packaging requirements for Pharmaceutical Dosage Forms. | 06 |
| | (b) Define Bioavailability. Enlist factors affecting Bioavailability of drug. | 03 |
| | (c) Write a short note on Novel Drug Delivery System. | 03 |
| Q.5 | (a) Define Absorption. Explain Factors affecting drug absorption. | 06 |
| | (b) Define: Volume of Distribution, Renal Clearance, and Elimination Half-life. | 03 |
| | (c) Write about Drug metabolizing organs and Enzymes in brief. | 03 |
| Q. 6 | (a) Define Bioequivalence. Explain Various types of Bioequivalence. | 06 |
| | (b) Write short note on passive diffusion. | 03 |
| | (c) Explain in brief about Drug protein. | 03 |
| Q.7 | (a) Define Prodrug. Write applications of Prodrug. | 06 |
| | (b) Write importance of BCS. | 03 |
| | (c) Write in brief about Narrow Therapeutic Index Drugs. | 03 |
