

**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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|-------------|---|-----------|
| <b>Q.1</b>  | (a) Define Dosage form. Classify Pharmaceutical Dosage Forms with examples.         | <b>06</b> |
|             | (b) Explain role of GMP & GLP in Manufacturing of Dosage Forms.                     | <b>03</b> |
|             | (c) Write in brief about QA & QC.   | <b>03</b> |
| <b>Q.2</b>  | (a) Define Tablets. Write Advantages and Disadvantages of Tablets.                  | <b>06</b> |
|             | (b) Enlist Ingredients used in tablets manufacturing with their specific role.      | <b>03</b> |
|             | (c) Define: Mottling, Capping and Lamination.                                       | <b>03</b> |
| <b>Q.3</b>  | (a) Give difference between Emulsion and Suspension.                                | <b>06</b> |
|             | (b) Define: Elixir, Solution, Syrup, Liniment, Lotion, Gargles.                     | <b>03</b> |
|             | (c) Explain Theory of emulsification.   | <b>03</b> |
| <b>Q.4</b>  | (a) Write about storage and Packaging requirements for Pharmaceutical Dosage Forms. | <b>06</b> |
|             | (b) Define Bioavailability. Enlist factors affecting Bioavailability of drug.       | <b>03</b> |
|             | (c) Write a short note on Novel Drug Delivery System.                               | <b>03</b> |
| <b>Q.5</b>  | (a) Define Absorption. Explain Factors affecting drug absorption.                   | <b>06</b> |
|             | (b) Define: Volume of Distribution, Renal Clearance, and Elimination Half-life.     | <b>03</b> |
|             | (c) Write about Drug metabolizing organs and Enzymes in brief.                      | <b>03</b> |
| <b>Q. 6</b> | (a) Define Bioequivalence. Explain Various types of Bioequivalence.                 | <b>06</b> |
|             | (b) Write short note on passive diffusion.  | <b>03</b> |
|             | (c) Explain in brief about Drug protein.  | <b>03</b> |
| <b>Q.7</b>  | (a) Define Prodrug. Write applications of Prodrug.                                  | <b>06</b> |
|             | (b) Write importance of BCS.  | <b>03</b> |
|             | (c) Write in brief about Narrow Therapeutic Index Drugs.                            | <b>03</b> |

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