

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM - SEMESTER- 1 EXAMINATION – SUMMER -2019**

**Subject Code: BP103TP****Date: 01-06-2019****Subject Name: Pharmaceutics I****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.

- |             |  |           |
|-------------|--|-----------|
| <b>Q.1</b>  | (a) Give the classification of dosage forms with definitions.                                    | <b>06</b> |
|             | (b) What are the various parts of prescription?  | <b>05</b> |
|             | (c) Write a note on 'Pharmacy as a carrier'.   | <b>05</b> |
| <b>Q.2</b>  | (a) What is posology? Discuss the pediatric dose calculations based on age and body weight.      | <b>06</b> |
|             | (b) Discuss the imperial systems for weight and measures.  | <b>05</b> |
|             | (c) Explain with examples: effervescent and efflorescent powders?                                | <b>05</b> |
| <b>Q.3</b>  | (a) Discuss the Geometric dilutions in powders and explain eutectic mixtures.                    | <b>06</b> |
|             | (b) What are the merits and demerits of liquid dosage forms?                                     | <b>05</b> |
|             | (c) Describe the calculation for isotonic solutions based on freezing point.                     | <b>05</b> |
| <b>Q.4</b>  | (a) Write a note on physical incompatibility with examples.                                      | <b>06</b> |
|             | (b) Discuss the method of preparation for lotion and liniments.                                  | <b>05</b> |
|             | (c) Give the application site for followings: pessaries, enema, elixirs, gargles, throat paints. | <b>05</b> |
| <b>Q.5</b>  | (a) Give a note on 'displacement value' considered in preparation of suppository.                | <b>06</b> |
|             | (b) Give the labeling requirements of enema, nasal drops, liniments, ointments and suppository.  | <b>05</b> |
|             | (c) How flocculated and deflocculated suspensions have been prepared?                            | <b>05</b> |
| <b>Q. 6</b> | (a) Explain in brief: method of preparation of emulsion.   | <b>06</b> |
|             | (b) Discuss the method of preparation of ointments.  | <b>05</b> |
|             | (c) Differentiate between suspension and emulsion with examples.                                 | <b>05</b> |
| <b>Q.7</b>  | (a) Explain the mechanisms of dermal penetration of drugs.                                       | <b>06</b> |
|             | (b) Discuss the excipients used in semisolid dosage forms.                                       | <b>05</b> |
|             | (c) Discuss the chemical incompatibility with suitable examples.                                 | <b>05</b> |

\*\*\*\*\*