Seat No.: _____ Enrolment No. _____

# 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.**

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

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