

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER-I • EXAMINATION – SUMMER -2018

Subject Code: BP103TP**Date: 05/05/2018****Subject Name: PHARMACEUTICS-I****Time: 02:30PM TO 05:30PM****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Define posology. Discuss in brief the factors which influence dose. **06**
(b) Define prescription. Explain various parts of prescription. **05**
(c) Describe Physical instability in emulsion and how to overcome it. **05**
- Q.2** (a) Describe various types of ointment bases with examples. **06**
(b) Give formulas to calculate the dose for child. **05**
(c) Explain various test to be performed for identification of types of emulsion **05**
- Q.3** (a) Differentiate ointment, cream and paste. **06**
(b) Discuss Displacement value with suitable example. **05**
(c) Classify powders and briefly discuss surgical and medical dusting powders. **05**
- Q.4** (a) Define Incompatibility. Enumerate various types of incompatibility and explain various types of physical incompatibilities. **06**
(b) Explain in brief sources of errors in prescription. **05**
(c) Give Reason **05**
 1) Citric acid is an important basic material for compounding effervescent granules.
 2) Powder dosage forms are more stable than liquid dosage forms.
- Q.5** (a) Explain various mechanisms and factors influencing penetration of drug through skin. **06**
(b) Differentiate Flocculated suspension and Deflocculated suspension. **05**
(c) How many parts of 80 %, 65 %, 32 % and 20 % alcohols are to be mixed together so as to give 40 % alcohol? **05**
- Q.6** (a) Define Suppository. Describe various types of suppository bases with examples. **06**
(b) Explain various evaluation parameters to be performed for semi solid dosage forms. **05**
(c) Distinguish the following pairs **05**
 1) Lotions and Liniments
 2) Mouth wash and throat paint
- Q.7** (a) Describe various techniques used for solubility enhancement. **06**
(b) Explain therapeutics incompatibility with suitable examples. **05**
(c) Convert 90 % v/v and 40 % v/v alcohol in to proof strength. **05**
