

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.

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|-------------|---|-----------|
| 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 |
