

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm – SEMESTER -I • EXAMINATION – SUMMER -2023

Subject Code: BP103TP**Date: 14/08/2023****Subject Name: PHARMACEUTICS I****Time: 02:30 pm to 05:30 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) Write a note on errors in prescription. | 06 |
| | (b) Explain Indian pharmacopoeia in detail. | 05 |
| | (c) Explain pharmacy as a carrier. | 05 |
| Q.2 | (a) Define the terms: proof spirit, proof strength, syrup, capsule, ointment, and tablet. | 06 |
| | (b) Calculate the amount of 70%, 60%, 40% and 30% alcohol should be mixed to get 50% alcohol. | 05 |
| | (c) Find the concentration of sodium chloride required to make a 1.5% solution of cocaine hydrochloride iso-osmotic with blood plasma. (Given: the freezing point of 1%w/v solution of cocaine hydrochloride is -0.09°C , the freezing point of 1%w/v solution of NaCl is -0.576°C) | 05 |
| Q.3 | (a) Define and classify dosage form with examples. | 06 |
| | (b) Define powder. Explain effervescent powder in detail. | 05 |
| | (c) What is posology? Discuss factors affecting posology. | 05 |
| Q.4 | (a) Explain different solubility enhancement techniques for liquid dosage form. | 06 |
| | (b) Write a note on syrup. | 05 |
| | (c) Define: Gargles, mouthwashes, elixirs, throat paint, and ear drops. | 05 |
| Q.5 | (a) Give a short note on physical instability of emulsion and methods to overcome it. | 06 |
| | (b) Differentiate flocculated and deflocculated suspension. | 05 |
| | (c) Discuss different identification tests for type of emulsion. | 05 |
| Q. 6 | (a) Explain mechanism of dermal penetration of drug. | 06 |
| | (b) Define and classify suspension. Give its advantages and disadvantages. | 05 |
| | (c) Differentiate cream and ointment. | 05 |
| Q.7 | (a) Write a note on suppository bases. | 06 |
| | (b) Discuss chemical incompatibilities with example. | 05 |
| | (c) Give a short note on displacement value with suitable example. | 05 |
