

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Pharm. D – Year-I • EXAMINATION – SUMMER -2024**

**Subject Code: 818802****Date:22/05/2024****Subject Name: PHARMACEUTICS****Time: 10:30am to 01:30pm****Total Marks:70****Instructions:**

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

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|------------|---|-----------|
| <b>Q.1</b> | (a) Discuss history and development of Pharmacy Profession.   | <b>06</b> |
|            | (b) Define prescription and write a note on parts of prescription.  | <b>04</b> |
|            | (c) Define Posology. Discuss factors Affecting Dose selection.  | <b>04</b> |
| <b>Q.2</b> | (a) Discuss allegation and proof sprit.   | <b>06</b> |
|            | (b) Define: Syrup, Suspension, Emulsion and Pessaries.  | <b>04</b> |
|            | (c) Write a note on evaluation tests for Emulsions.   | <b>04</b> |
| <b>Q.3</b> | (a) Differentiate between liniment and lotion.  | <b>06</b> |
|            | (b) Define: Gargles, Douches, Mouth wash and Throat paint.  | <b>04</b> |
|            | (c) Define and classify Monophasic liquid dosage form.  | <b>04</b> |
| <b>Q.4</b> | (a) Give the advantages and disadvantages of emulsion.  | <b>06</b> |
|            | (b) Write a note on excipients used in liquid dosage form.  | <b>04</b> |
|            | (c) Give a note on Insufflations.   | <b>04</b> |
| <b>Q.5</b> | (a) How many milliliters each of a 50% w/v dextrose solution and a 5% w/v dextrose solution is required to prepare 4500 ml of a 10% w/v solution? | <b>06</b> |
|            | (b) Define Suppositories. Write advantages and disadvantages of Suppositories.  | <b>04</b> |
|            | (c) Discuss types of base used in Suppositories.  | <b>04</b> |
| <b>Q.6</b> | (a) Write a note on eutectic and explosive powders.   | <b>06</b> |
|            | (b) If an injection containing a medication, 50 mg/10 mL, is diluted to 1L, calculate percent strength of the resulting solution?                 | <b>04</b> |
|            | (c) Write a short note on Surgical aids.  | <b>04</b> |
| <b>Q.7</b> | (a) Write a note on Indian National Formulary.  | <b>06</b> |
|            | (b) Explain chemical incompatibility due to precipitation by chemical reaction.   | <b>04</b> |
|            | (c) Give the remedy to overcome incompatibility due to liquefaction.  | <b>04</b> |

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