

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Ph.- SEMESTER-I • EXAMINATION – SUMMER -2022**

**Subject Code: BP103TP****Date: 07/09/2022****Subject Name: PHARMACEUTICS-I****Time: 10:30am to 01:30pm****Total Marks: 80****Instructions:**

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

- |             |   |           |
|-------------|---|-----------|
| <b>Q.1</b>  | (a) Define terms 1) Mixture 2) Lotion 3) effervescent granules 4) Elixir 5) gels 6) Enemas  | <b>06</b> |
|             | (b) Write in detail Education and scope of pharmacy.  | <b>05</b> |
|             | (c) Define Prescription. Discuss parts of prescription with sample prescription.  | <b>05</b> |
| <b>Q.2</b>  | (a) Define Posology. How age, body weight and surface area influence calculation of dose. Write equations to calculate child dose based on Age, Surface area and body Weight. | <b>06</b> |
|             | (b) Write in detail errors associated with prescription writing.  | <b>05</b> |
|             | (c) What are the different monophasic oral liquids? Discuss excipients used in medicated solutions.   | <b>05</b> |
| <b>Q.3</b>  | (a) Define suppositories. Classify suppository bases. Write ideal properties of Suppository bases.  | <b>06</b> |
|             | (b) Write advantages of synthetic suppository base over Cocoa butter.   | <b>05</b> |
|             | (c) Discuss geometric dilution, displacement values and eutectic mixture.   | <b>05</b> |
| <b>Q.4</b>  | (a) Define Emulsion. Classify Emulsion. Discuss instability problems of emulsion and suggest remedy.  | <b>06</b> |
|             | (b) Write labelling requirement for lotion, liniment and ointment.  | <b>05</b> |
|             | (c) Write methods used in Identification of type of Emulsion.   | <b>05</b> |
| <b>Q.5</b>  | (a) Define incompatibility. Classify types of incompatibility and discuss therapeutic incompatibility.  | <b>06</b> |
|             | (b) Classify suspension. Discuss advantages, disadvantages and method of preparation of suspensions.  | <b>05</b> |
|             | (c) Calculate the volume of each 90%, 70 %, 20% alcohol and water required to produce 1 liter of 45% alcohol solution.  | <b>05</b> |
| <b>Q. 6</b> | (a) Differentiate followings  | <b>06</b> |
|             | 1) Cream and ointment   |           |
|             | 2) Paste and jelly  |           |
|             | (b) What do you mean by Tolerated and Adjusted type of incompatibility?   | <b>05</b> |
|             | Discuss the following prescription and suggest remedy.  |           |
|             | Rx  |           |
|             | Sodium benzoate   |           |
|             | Caffeine citrate  |           |
|             | Water.  |           |
|             | (c) Discuss in detail chemical incompatibility and suggest remedy with suitable examples.   | <b>05</b> |
| <b>Q.7</b>  | (a) Classify the ointment bases. Write Ideal properties of ointment base. Discuss properties of absorption bases in brief.  | <b>06</b> |
|             | (b) Write a note on mouthwash and gargles.  | <b>05</b> |
|             | (c) Discuss formulation, labeling and packaging for effervescent granules.  | <b>05</b> |

\*\*\*\*\*