

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. – SEMESTER – IV • EXAMINATION – WINTER 2013**

**Subject Code: 240001**

**Date: 26-11-2013**

**Subject Name: Dispensing Pharmacy – I**

**Time: 02.30 pm - 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.**

- |             |                                                                                                                                                  |           |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>Q.1</b>  | (a) What are various parts of prescription? Enlist them and give the significance of putting date on the prescription.                           | <b>06</b> |
|             | (b) Convert Latin terms into English                                                                                                             | <b>05</b> |
|             | i) Si opus sit    ii) bis in die    iii) Hora somni<br>iv) Post cibos    v) Omni mane                                                            |           |
|             | (c) Briefly discuss different operational aspects in compounding of a prescription.                                                              | <b>05</b> |
|             |                                                                                                                                                  |           |
| <b>Q.2</b>  | (a) What are the precautions to be taken by a pharmacist to avoid possibilities of errors while dispensing prescription?                         | <b>06</b> |
|             | (b) Write a various factors affecting the price of prescription.                                                                                 | <b>05</b> |
|             | (c) Write the English translation of the following abbreviation                                                                                  | <b>05</b> |
|             | i) q.i.d    ii) Coch.mag    iii) Caps    iv) ss    v) Mitt                                                                                       |           |
|             |                                                                                                                                                  |           |
| <b>Q.3</b>  | (a) How many parts of 70% v/v, 60% v/v, 30% v/v, and 20% v/v alcohol are mixed to obtain 200 liters of 40% alcohol?                              | <b>06</b> |
|             | (b) Convert                                                                                                                                      | <b>05</b> |
|             | ∅ iiss, ∅ vss, lb i into grains and<br>fl§ v, fl§ iiss into minim                                                                                |           |
|             | (c) Define proof spirit and proof gallon. What will be the % strength corresponding to 50 U.P. and 30 O.P.                                       | <b>05</b> |
|             |                                                                                                                                                  |           |
| <b>Q.4</b>  | (a) How do children dose calculated ?                                                                                                            | <b>06</b> |
|             | (b) Comment on with suitable example                                                                                                             | <b>05</b> |
|             | i) Age affect the dose of drug                                                                                                                   |           |
|             | ii) Sex affect the dose of drug                                                                                                                  |           |
|             | (c) Define posology. What do you understand by therapeutic and toxic dose?                                                                       | <b>05</b> |
|             |                                                                                                                                                  |           |
| <b>Q.5</b>  | (a) Classify powders. Briefly discuss medical and surgical dusting powder                                                                        | <b>06</b> |
|             | (b) How do following additives useful in the dispensing of a stable liquid dosage forms?    i) Surfactants                      ii) Antioxidants | <b>05</b> |
|             | (c) Enlist various monophasic liquids for external use. Discuss those which are useful for mouth cavity.                                         | <b>05</b> |
|             |                                                                                                                                                  |           |
| <b>Q. 6</b> | (a) Write a comment on                                                                                                                           | <b>06</b> |
|             | I) Lugol's solution                                                                                                                              |           |
|             | II) Lysol solution                                                                                                                               |           |
|             | (b) Enlist various solubility enhancement techniques. Write brief on Hydrotropy and co-solvency.                                                 | <b>05</b> |
|             | (c) Distinguish the following pairs                                                                                                              | <b>05</b> |
|             | I) Lotion with liniments                                                                                                                         |           |
|             | II) Gargles with mouthwash                                                                                                                       |           |

- Q.7**
- (a) Find the proportion of NaCl required to render 50 ml of 3% w/v solution of procaine HCl isotonic with blood serum FP of 1% w/v procaine HCL :  $-0.122^{\circ}\text{C}$ , FP of 1% w/v solution of NaCl:  $-0.58^{\circ}\text{C}$ . **06**
- (b) Explain the following phenomenon with suitable example **05**
- i) Antagonism      ii) Addiction      iii) Hypersensitivity
- (c) Give Reason **05**
- I) Citric acid is an important basic material for compounding effervescent granules
- II) Powder dosage forms are more stable than liquid dosage forms.

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