

GUJARAT TECHNOLOGICAL UNIVERSITY**B. Pharm. Sem - IV Examination June- 2011****Subject code: 240001****Subject Name: Dispensing Pharmacy-I****Date: 02/06/2011****Time: 10.30 am – 01.30 pm****Total Marks: 80****Instructions:**

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

- Q.1** (a) Comment on the following **06**
1. Inscription and subscription are synonymous
 2. Cold cream is o/w type of emulsion.
 3. Both tartaric acid and citric acid are used in the formulation of effervescent powders.
- (b) Explain in brief: **10**
- Proof spirit, emulsion, Cachets, Draught, Insufflation
- Q.2** (a) Discuss the general procedure for the handling of prescription **05**
- (b) Give all the labeling requirement of the following dosage form **06**
1. Liniment
 2. Enema
 3. Effervescent antacid granules
 4. Lozenges
 5. Linctus
 6. Inhalation
- (c) A Pharmacist has 70 % w/v solution and 15 % w/v solution available with him. How much quantity of both the solution is required if he wants to prepare 440 ml of 30 % solution **05**
- Q.3** (a) Find out the amount of sodium chloride to prepare 20 ml 5 % w/v solution of sulphacetamide solution isotonic with the tears. **05**
- Freezing point depression of 1 % sulphacetamide = -0.132°C
 Freezing point depression of 1 % sodium chloride = -0.58°C
- (b) Solve and Comment on the following prescription **06**
- | | |
|--------------------------|-------------------|
| Calcii carbonatis | gr ii ss |
| Bismuthi carbonatis | gr v |
| Heavy magnesi carbonatis | gr ii ss |
| Olei rosae | qs |
| Simple base | qs gr xv |
| Fiat: Trochiscus | Mitte: Tales octe |
- Signa: Unus trochiscus sugendus lente, quattris horis
- (c) Write a short note on: liquid mixtures. **05**
- Q.4** How the following problems solved. Explain with example **16**
1. Powder containing deliquescent ingredient
 2. Incorporation of extracts/tincture in powder/pill mass
 3. Powders containing explosive mixtures
 4. Powders containing eutectic mixtures

- Q.5** (a) Translate the following terms into English: **05**
 Haustus, Cochleare amplum, post cibos, si opus sit, Guttae
- (b) Write the formula for calculating the child dose on the bases of surface area. Discuss the factors affecting the dose. **06**
- (c) How many tablets each of 10 gr of Potassium permanganate will be required to make half gallon of 1 in 500 solution. **05**
- Q. 6** Differentiate between the following **16**
1. Syrup IP and Syrup USP
 2. Mouthwash and Gargles
 3. Liniment and Lotion
 4. Flocculated suspension and Deflocculated suspension
- Q.7** (a) Write a note on flavors and colors as oranoleptic additives **06**
- (b) Solve and Comment on the following prescription **10**
1. Olei Ricini 3 iv
 Amyli 3 ii
 Aquam fl oz x
 Fiat: Emulsio Mitte: fl oz ii
 Signa; Enema hora somni recto adhibendus
 2. Inchthammol 3 iv
 Olei amygdalae fl oz i
 Liq. Calcihydroxidi fl oz i
 Glycerin fl oz ii
 Aquam qs fl oz vi
 Fiat: lotio Mitte: fl oz i
 Signa; Parti affectae applicandus
