

**GUJARAT TECHNOLOGICAL UNIVERSITY****B. PHARM. - SEMESTER – IV • EXAMINATION – WINTER 2012****Subject code: 240001****Date: 30/12/2012****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.

- Q.1** (a) Define prescription and explain different parts of a typical prescription. **06**  
(b) Define posology and discuss factors affecting dose calculations. **05**  
(c) Define draughts, linctuses, drops, syrups and elixirs. **05**
- Q.2** (a) Give labeling requirements for inhalations, emulsions, cachets, gargles, dusting powders and insufflations. **06**  
(b) Discuss labeling instructions restricting the use of preparations. **05**  
(c) How many tablets each containing 5.85 gr of  $\text{KMnO}_4$  will be required to make half a gallon of a 1 in 500 solution? **05**
- Q.3** (a) If adult dose of a drug is 110 mg. Calculate the dose of child of 6 years using Young's formula and Dilling's formula. **06**  
(b) Discuss desirable features of containers and closure for dispensing products. **05**  
(c) Discuss general dispensing procedure. **05**
- Q.4** (a) How much of 4% ointment must be added to 50 g of an 20% ointment to make an 10% ointment. **06**  
(b) Calculate the gram of solid required to prepare 480 ml of a 1 in 750 ml solution. **05**  
(c) Discuss solvents used to dissolve or disperse active medicaments. **05**
- Q.5** (a) Classify mixtures and discuss diffusible mixture. **06**  
(b) Discuss thickening agents and suspending agents used in indiffusible mixtures. **05**  
(c) How much taxable alcohol would be in 1 gallon of 45 proof alcohol? **05**
- Q. 6** (a) Discuss various tests for the determination of emulsion type. **06**  
(b) Discuss coalescence phenomenon associated with emulsion stability. **05**  
(c) Calculate the amount of NaCl required to make 100 ml of an 2.5 %w/v antibiotic solution isotonic with blood plasma. Freezing point depression of (i) 1 %w/v antibiotic solution is - 0.132, (ii) 1 %w/v NaCl solution is - 0.58 and (iii) blood plasma is - 0.52. **05**
- Q. 7** (a) Discuss problems of powders containing deliquescent and efflorescent substances with their remedies. **06**  
(b) Define displacement value and discuss tablet triturates. **05**  
(c) Send 12 tablet triturates of 1 g each containing 200 mg of ZnO and 300 mg of Bismuth Oxychloride. Displacement value of (i) ZnO is 4.8 and (ii) Bismuth Oxychloride is 4.0. **05**

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