

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM.-SEMESTER-IV- EXAMINATION –SUMMER-2017**

**Subject code: 240001**

**Date: 26/04/2017**

**Subject Name: Dispensing Pharmacy I**

**Time: 02:30 PM to 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) What is Prescription? Discuss various parts of prescription by giving suitable example. **06**
  - (b) Discuss various sources of error in prescription. **05**
  - (c) Compare and contrast: **05**
    - (i) Syrups & Elixirs
    - (ii) Liniments & Lotions
- Q.2**
- (a) Calculate the number of grains required to prepare 4 oz. of solution so that 1 tablespoonful diluted to 1 quart makes 1 in 500 solution. **06**
  - (b) Comment On Following: **05**
    - (i) Syrup IP is Self-Preservative.
    - (ii) Glycerin is used as a vehicle in Throatpaints.
  - (c) Give the labeling requirements for Emulsions, Inhalations, Cachets, Throat paints, Effervescent granules. **05**
- Q.3**
- (a) Write a short note: Stability of Emulsions **06**
  - (b) Discuss various identification tests of emulsion. **05**
  - (c) Calculate the volume of each of 90%, 60%, 30% and water are required to Produce 500 ml of 50% alcohol. **05**
- Q.4**
- (a) Comment on following: **06**
- R<sub>x</sub>
- |                   |             |
|-------------------|-------------|
| Liquidi paraffini | fl 3 ii ss  |
| Olei ricini       | fl 3 ii ss  |
| Syrupi            | fl 3 vii ss |
| Aquam...q.s.....  | fl 3 xxv    |
- Fiat: Emulsio      Mitte: fl oz. I  
Signa: Sumendum, hastus semel.

- (b) Write a short note on various types of glass used in pharmaceutical packaging material. **05**
- (c) How many tablets each containing 8.75 gr of  $\text{HgCl}_2$  will be required to make  $\frac{1}{2}$  gallon of 1 in 500 solution. **05**
  
- Q.5** (a) Discuss dispensing problems of following powders with their remedies: **06**
  - (i) Eutectic mixtures
  - (ii) Efflorescent powders
  - (iii) Hygroscopic and deliquescent powders
- (b) Write a short note on Douches. **05**
- (c) Find out concentration of NaCl required to make 1.5% solution of Cocaine hydrochloride iso-osmotic with blood plasma. (Freezing point depression of (i) 1% w/v solution of Cocaine hydrochloride is:  $0.09^\circ\text{C}$ , (ii) 1% w/v solution of NaCl is:  $0.576^\circ\text{C}$ ) **05**
  
- Q. 6** (a) Define: Posology. Explain various factors affecting dose of a drug. **06**
- (b) Explain in brief about displacement value in dispensing Tablet triturates. **05**
- (c) What is the dose of a medicament for child whose weight is 66 pound (lb.) ( Adult Dose is: 2.5 mg/kg of body weight) **05**
  
- Q.7** (a) Write a short note on followings: **06**
  - (i) Blister packaging
  - (ii) Strip packaging
- (b) Write a short note on Labelling of dispensed products. **05**
- (c) Describe dry gum method and wet gum method for preparation of emulsion. **05**

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