

Code No: 281AE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Pharmacy I Year I Semester Examinations, April - 2023

PHARMACEUTICS

Time : 3 hours

Max Marks: 75

**Note:** The end semester examinations will be conducted for 75 marks consisting of two parts viz. i) **Part- A** for 25 marks, ii) **Part - B** for 50 marks.

- **Part-A** is compulsory question which consists of fifteen sub-questions. The first ten sub-questions are of Objective type/ Multiple Choice Questions, 2 from each unit and carry 1 mark each. The next five sub-questions are Short Answer Questions one from each unit and carry 3 marks each.
- **Part-B** consists of ten Long Answer Questions (numbered from 2 to 11) carrying 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an “either” “or” choice, which means that there will be two questions from each unit and the student should answer either of the two questions.

**PART- A****(25 Marks)**

- 1.a) In the day of mythology, the symbol Rx was considered as a prayer to ..... [1]  
 A) Mercury B) Venus  
 C) Neptune D) Jupiter
- b) Pharmacy Council of India (PCI) was established in \_\_\_\_\_ [1]  
 A) 1947 B) 1948  
 C) 1949 D) 1950
- c) The component present in solution in small quantity is known as \_\_\_\_\_ [1]  
 A) Solvent B) Solution  
 C) Solute D) Liquid
- d) Following are the disadvantages of liquid dosage form except: [1]  
 A) More chance of microbial contamination  
 B) Poor stability of medicament  
 C) Chance of variation in the doses  
 D) Not suitable of hygroscopic substances
- e) Liniments must not be applied on the \_\_\_\_\_ skin [1]  
 A) Swelled B) Broken  
 C) Painful D) Normal
- f) Emulsion made with tweens are [1]  
 A) W/O B) O/W  
 C) Clear D) Unstable
- g) Glycerogelatin bases are \_\_\_\_\_ type of suppository bases [1]  
 A) Fatty bases B) Water soluble bases  
 C) Emulsifying bases D) None of the above
- h) Which type of containers are used for suppositories? [1]  
 A) Aluminium foils B) Plastic tubes  
 C) Vials D) Ampoules
- i) Ointments are prepared by following methods except [1]  
 A) Trituration method B) Fusion method  
 C) Chemical reaction method D) Bottle method

- j) Paraffin's are main constituent of [1]  
 A) Absorption bases B) Water soluble bases  
 C) Emulsion bases D) Oleaginous bases
- k) Explain career opportunities in pharmacy. [3]
- l) Write a note on Powders for external use. [3]
- m) Write in brief about various types of tests for the identification of type of emulsion. [3]
- n) Define suppositories. Write the advantages and disadvantages of suppositories. [3]
- o) Write a short note on the preparation of pastes. [3]

**PART-B**

**(50 Marks)**

- 2.a) Write a detailed note on Extra Pharmacopoeia.  
 b) Add a note on errors in prescription. [5+5]
- OR**
- 3.a) Write a note on United States Pharmacopoeia.  
 b) Calculate the dose for  
 i) A 9 months old infant  
 ii) A child of 5 years  
 iii) A boy of 16 years age when the adult dose of a drug is 100 mg. [5+5]
- 4.a) Write a note on isotonic solutions and give the general principles for adjustment to Isotonicity.  
 b) Citric acid is an important basic material for compounding effervescent granules. Justify. [5+5]
- OR**
- 5.a) Explain in detail about the various additives used in the formulation of liquid dosage forms.  
 b) Explain in detail about the various techniques used for solubility enhancement. [5+5]
6. Describe in detail regarding the various formulation strategies to be adopted in the improve the stability of suspensions. [10]
- OR**
- 7.a) Define Enemas. Write a note on the preparation of enemas.  
 b) Write a note on gargles and mouth washes with an example formula for each. [5+5]
8. Classify in detail the different suppository bases used in the preparation of suppositories. Discuss the different methods for the evaluation of suppositories. [10]
- OR**
9. Discuss the therapeutic incompatibilities in detail with suitable examples. [10]
10. Discuss the mechanisms of dermal penetration of drugs. [10]
- OR**
- 11.a) What is a gel? Discuss the methods for the evaluation of semi solid dosages forms.  
 b) Write a note on various excipients used in the preparation of semi solid dosage forms. [5+5]