

**Total No. of Pages : 03**

**Total No. of Questions : 13**

**B.Pharma (2017 & Onward) (Sem.-1)**

# PHARMACEUTICS I-THEORY

**Subject Code : BP-103T**

**Paper ID : [74646]**

**Time : 3 Hrs.**

**Max. Marks : 75**

**INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.**
3. **SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.**

## SECTION-A

**1. Answer briefly :**

- a) In what proportion must a preparation containing 10% of drug be mixed with one containing 15% of drug, to produce a mixture of 12% drug strength?
- b) Give the metric equivalents of following :
  - a. One fluid oz
  - b. One dessert spoonful
  - c. One teaspoonful
  - d. One drop
- c) Define the following:
  - a. Throat paint
  - b. Liniments
- d) How many grams of sodium chloride would be required to dispense 2 fluid ounce of 0.9% (w/v) solution?

- e) Differentiate between bulk and divided powders.
- f) Why is invert syrup sweeter than simple syrup?
- g) What are aromatic waters?
- h) Enlist the various dosage forms for parenteral route.
- i) Differentiate between mouthwashes and gargles.
- j) How many proof gallons are contained in 5 gallon of 70%v/v alcohol?

### SECTION-B

- 2 a) Define emulsions. Discuss various methods of their preparation.  
b) Distinguish between ointments and pastes.
- 3 a) Define prescription. Explain its various parts and errors in prescription.  
b) Write a note on various solubility enhancement techniques.
- 4 Differentiate between :  
a) Syrups and elixirs.  
b) Lotion and liniments.

### SECTION-C

- 5 Write note on Indian pharmacopoeia.
- 6 Discuss the types of powders and grading with examples.
- 7 Identify the type of incompatibility in the below prescriptions and discuss its rectification :  
Rx  
Oleic Acid.... 2 ml  
Liq. Paraffin... 6 ml  
Glycerin... 3 ml  
Methyl paraben... 22.5 mg  
Triethanolamine... 2 ml  
Water...to.... 30 ml  
Fiat- Emulsion

- 8 What are flocculated and de-flocculated suspensions?
- 9 Define and discuss the types of bases used for the preparation of ointment.
- 10 What are suppositories? Discuss the importance of displacement value in the formulation of suppositories.
- 11 Discuss in detail the various factors influencing the dermal penetration of dosage form.
- 12 What do you understand by term posology? The normal adult dosage of a medication is 150 mg. The child weighs 32 kg and is 120 cm tall. How much medication should be given to the child?
- 13 Find the concentration of dextrose required to make a 0.12% solution of sodium chloride iso-osmotic with blood plasma.

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