

**B. PHARM**  
**(SEM-I) THEORY EXAMINATION 2019-20**  
**PHARMACEUTICS-I**

**Time: 3 Hours**

**Total Marks: 75**

**Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.  
2. Any special paper specific instruction.

**SECTION A**

1. **Attempt all questions in brief.** **10 x 2 = 20**
- a. Define prescription.
  - b. In which year does the most recent edition of Indian Pharmacopoeia has been published lately and how many volumes does this latest edition contain?
  - c. Who is considered as the father of pharmacy education in India?
  - d. When a solution can be termed as isotonic?
  - e. Name one anti-microbial preservative and an antioxidant used in liquid dosage forms.
  - f. What do you mean by the term "Self-Preserving"? Give two examples of self-preserving dosage forms.
  - g. Define suspension with an example.
  - h. Define suppository with an example.
  - i. What is therapeutic incompatibility?
  - j. Give examples of two ointment bases.

**SECTION B**

2. **Attempt any two parts of the following:** **2 x 10 = 20**
- a. Write a detailed note history of Pharmacy in India.
  - b. Define emulsions. Discuss their methods of preparation, stability problems and methods to overcome these problems.
  - c. Discuss the mechanisms and factors influencing dermal penetration of drugs.

**SECTION C**

3. **Attempt any five parts of the following:** **5 x 7 = 35**
- a. Write a short note on parts of a prescription with a suitable example of a model prescription.
  - b. Define the term posology. Discuss the various factors affecting Posology.
  - c. Calculate the amount of 75%, 65%, 45% and 35% alcohol should be mixed to get 55% alcohol using allegation method.
  - d. Discuss with proper examples effervescent, efflorescent and hygroscopic powders.
  - e. Write a short note gargles, mouthwashes and throat paints with an example formula for each.
  - f. How many different types of suppository bases are there? Discuss the different methods for the evaluation of suppositories.
  - g. What is a gel? Discuss the methods for the evaluation of semi solid dosage forms.