

INDIRA UNIVERSITY, PUNE

SCHOOL OF PHARMACY- PHARM D

Term End Examination (2025 Pattern) April- May – 2026- First Year

Course Name: Pharmaceutics
Course Code: 1.2

Max. Marks: 70
Time: 3:00 Hrs.

Instructions

- All Questions are Compulsory. Write two sections on separate answersheets.
- Neat diagram must be drawn wherever necessary.
- Figures to the right indicate full marks.

Section : I

Q.1. Explain various dosage forms along with its detailed classification. **(10 Marks)**

OR

Q.1. Define posology and explain in detail the factors affecting dose selection. **(10 Marks)**

Q.2. Solve any five. **(15 Marks)**

- Classify monophasic liquid dosage forms.
- Differentiate between types of powders.
- Discuss compounding and dispensing of eutectic mixture.
- Enumerate the steps involved in handling prescription.
- List the importance of U.S. Pharmacopeia.
- Describe Young's formula and Dilling's formula.
- Express the following in metric equivalents:
 - one grain
 - one ounce
 - one teaspoonful

Q.3. Write shorts on any two. **(10 Marks)**

- Explain effervescent powders and granules.
- Describe the formulation aspects of liniments and lotions.
- Discuss about significant features of recent edition of Indian pharmacopoeia.
- Define prescription and explain parts of a prescription.

Section : II

Q.4. Classify types of suppositories in detail. Describe the methods of preparation of suppositories. **(10 Marks)**

OR

Q.4. Explain in detail allegation method. Calculate the volume of each 90% ,60% and 30% and water are required to prepare 500ml of 50% alcohol. **(10 Marks)**

Q.5. Solve any five. **(15 Marks)**

- a) Explain tinctures with suitable example.
- b) Describe types of incompatibilities.
- c) Differentiate between hypotonic and hypertonic solution?
- d) Explain the ideal characteristics of suppository bases.
- e) Describe types of emulsions and their advantages.
- f) Explain liquefaction and give methods to overcome it.
- g) Calculate the actual strength of 25° O.P. (over proof)

Q.6. Write shorts on any two. **(10 Marks)**

- a) Discuss the various methods of preparation of emulsion with suitable example.
- b) Define displacement value. Explain the importance of displacement value in formulation of suppository.
- c) Describe surgical dressings.
- d) Explain on stability of suspension.
