

INDIRA UNIVERSITY, PUNE

SCHOOL OF PHARMACY-B.PHARM

Term End Examination (2025 Pattern) December – 2025 - Semester – I

Subject Name: Pharmaceutics-I
Subject Code: BP103T

Max. Marks: 75
Time: 3 Hours

Instructions

- All questions are compulsory. Write two sections on separate answersheets.
 - Draw neat diagrams wherever applicable
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Q.1 Solve any FIVE from the following

15 Marks

- Derive formula for dose calculation as per age and weight.
- Differentiate between ointments and pastes.
- Discuss the role of emulsifying agents in emulsion formulation.
- Draw a model prescription.
- Define displacement value of a suppository base and explain its calculation?
- Discuss the different methods of mixing powders.
- Define isotonic, hypertonic and hypotonic solutions.

Q.2 Solve any TWO from the following

20 Marks

- Define Suppositories. Discuss different types of suppositories & formulation in detail.
- Classify suspensions and Discuss advantages, disadvantages of suspensions. Note on flocculated and deflocculated suspension?
- Describe various instabilities of emulsion. Discuss the causes and precautions to avoid.
- Explain in detail about history of IP. Silent features of 7th edition of IP.

Q.3 Solve any EIGHT from the following

40 Marks

- Describe the therapeutic incompatibilities that may occur when two or more drugs are used together.
- Explain the different types of excipients used in semisolid dosage forms.

- c** Explain the different types of suppository bases and their characteristics.
- d** Explain organoleptic additives used in monophasic liquid dosage forms with examples
- e** Define sedimentation volume and sedimentation rate. How are they determined experimentally with diagram?
- f** Discuss the Ideal Properties dosage form. Classify dosage forms based on route of administration in detail.
- g** Discuss the common errors in a prescription and measures taken to avoid errors.
- h** Define 'proof spirit'. Convert 90% v/v, 60% v/v, 40% v/v alcohol in to proof strength.
- i** Discuss geometric dilution and methods of preparation.
- j** Discuss methods for preparation of Suspensions.
