

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)**

**CLASS: B. PHARM.
BRANCH: PHARMACY**

**SEMESTER: I
SESSION: MO 2024**

SUBJECT: BP103T PHARMACEUTICS - I

TIME: 3.00 HOURS

FULL MARK: 75

INSTRUCTIONS:

1. The missing data, if any, may be assumed suitably.
2. Before attempting the question paper, be sure that you have got the correct question paper.
3. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
4. This question paper consists of (03) three parts. Read the part wise instructions before attempting the questions.

PART-I

Objective types questions (Instruction: Answer all questions)

Q1. (10 x 2 = 20 Marks)

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|----|---|------|
| A. | What do you mean by semisolid dosage form? | CO 1 |
| B. | Define suspension. | CO 1 |
| C. | Define emulsion. | CO 1 |
| D. | What is geometric dilution? | CO 1 |
| E. | What do you mean by sugar coating of the tablet? | CO 2 |
| F. | What do you mean by isotonic solution? | CO 1 |
| G. | Define eutectic mixture with suitable examples. | CO 3 |
| H. | What do you mean adjusted type of chemical incompatibility? | CO 2 |
| I. | What is concentration of sucrose present in simple syrup according to Indian Pharmacopoeia. | CO 1 |
| J. | What do you mean by dermatologic ointment? | CO 1 |

PART-II

Short Answers

(Instruction: Answer seven out of nine questions)

(7 x 5 = 35 Marks)

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|------|--|-----|
| Q2. | How will you produce 500 ml of 60% alcohol from 80% alcohol and 50% alcohol using alligation method? | CO2 |
| Q3. | Discuss the difference between flocculated and deflocculated suspension. | CO2 |
| Q4. | Discuss the methods for identification of emulsion. | CO3 |
| Q5. | Discuss various parts of prescription in detail. | CO4 |
| Q6. | Discuss various methods of mixing of powders. | CO3 |
| Q7. | Discuss the various aspects of evaluation of ointment in detail | CO2 |
| Q8. | Discuss the mechanism of penetration of drugs through transdermal route | CO4 |
| Q9. | What do you mean by upward and downward creaming and also discuss stokes law in detail. | CO3 |
| Q10. | Discuss various methods preparation of suppositories in detail. | CO5 |

PTO

PART-III
Long Answers
(Instruction: Answer two out of three questions)

(2 x 10 = 20 marks)

- Q11. Discuss the wet gum and dry gum method for preparation of emulsion in detail and also about ratio oil, water and gum for various type of oils for preparation of primary emulsion. C05
- Q12. Enlist the difference between diffusible and indiffusible solids. Discuss the method of preparation of diffusible and indiffusible solids with suitable examples. C04
- Q13. Discuss various factors of posology in detail. C04

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