

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

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

**SEMESTER: I
SESSION: MO 2022**

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 is the significance of Indian Pharmacopoeia? | CO1 |
| B. | What is the dose of a drug for a 9 months old child if an average adult dose is 25 mg? | CO1 |
| C. | What do you mean by Film coated tablets? Give a suitable example of substance used in film coating? | CO1 |
| D. | What happens when alkaloidal salts are dispensed with alkaline substance? | CO1 |
| E. | What do you mean by Suspension? | CO1 |
| F. | Define Emulsion. | CO1 |
| G. | Convert 52° under proof (U.P.) into % v/v of alcohol. | CO2 |
| H. | Define simple syrup. | CO1 |
| I. | Define Elixir with suitable examples. | CO1 |
| J. | What do you mean by posology? | CO1 |

PART-II

Short Answers

(Instruction: Answer seven out of nine questions)

- (7 x 5 = 35 Marks)
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|------|--|-----|
| Q2. | Explain the methods of identification of emulsion in detail? | CO2 |
| Q3. | Calculate the proportions of 20%, 15%, 5% alcohols should be mixed to obtain 200 ml of 9% alcohol? | CO2 |
| Q4. | Classify the type of emulsion based on the nature of dispersed phase. Discuss the method of preparation of emulsion by dry gum method. | CO3 |
| Q5. | Classify the different types of suppositories and discuss the advantages of suppositories. | CO3 |
| Q6. | Enlist the ideal requirement of suppositories bases and also discuss the significance of acid value in selection of suppository bases in preparation of suppository. | CO2 |
| Q7. | Discuss the steps of manufacturing of suppositories in detail and also explain the significance of calibration of mould during manufacturing of suppositories. | CO2 |
| Q8. | Outline the steps of packing of powders and also discuss the special instructions required for packaging of powders containing volatile substances. | CO2 |
| Q9. | Differentiate the flocculated and deflocculated suspension. | CO2 |
| Q10. | Enlist the difference between lotion and liniment. | CO2 |

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

(2 x 10 = 20 marks)

- Q11. Explain the various physico-chemical and physiological factors affecting drug absorption from rectal route CO2
- Q12. Classify diffusible and indiffusible solids and also discuss their method of preparation. CO3
- Q13. Explain the method of evaluation of ointment in detail. CO2

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