

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

**CLASS: BPHARM  
BRANCH: PHARMACY**

**SEMESTER: I  
SESSION: MO/2019**

**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.
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**PART-I**

**Objective types questions (Instruction: Answer all questions)**

Q1. (10 x 2 = 20 Marks)

- A. Enlist four official pharmacopoeias.
- B. What is Posology?
- C. The concentration of a drug additive in an animal feed is 12.5 ppm. How many milligrams of the drug should be used in preparing 5.2 kg of feed?
- D. Express 5 ppm of iron in water in percentage strength and ratio strength.
- E. What is the full form of NF & NFI? Which country publishes it?
- F. Define drug.
- G. Define eutectic mixture.
- H. What are cosolvents? Provide some examples of aqueous and nonaqueous cosolvents.
- I. What is Phase inversion Temperature?
- J. What do you understand by the term "Geometric Dilution method of mixing"?

**PART-II**

**Short Answers**

**(Instruction: Answer seven out of nine questions)**

(7 x 5 = 35 Marks)

- Q2. Describe the history and development of Indian Pharmacopoeia.
- Q3. (a) How many grams of a drug substance should be added to 360 mL of water to make a 6% (w/w) solution?  
(b) How will you dilute an ointment containing 14% sulphur with petrolatum to make 60 g of an ointment containing 7 % sulphur?
- Q4. (a) How many grams of a drug substance are required to make 240 mL of a 20% (w/w) solution having a specific gravity of 1.15?  
(b) Prepare 1L of 30% alcohol using 70% alcohol and 10 % alcohol.
- Q5. Classify O/W type and W/O type of emulsion.
- Q6. Discuss the different identification tests for detection of the emulsion types.
- Q7. What do you mean by film coated, Sugar coated and enteric coated tablet?
- Q8. Write a brief note on incompatibility.
- Q9. Classify the solid dosage forms on the basis of route of administration.
- Q10. Classify the bases used in Suppositories.

**PART-III**

**Long Answers**

**(Instruction: Answer two out of three questions)**

(2 x 10 = 20 marks)

- Q11. What is prescription? With the help of a model prescription, discuss the different parts of it.
- Q12. Write a note on Handling of prescription by a Pharmacist.
- Q13. Discuss the different evaluation parameters for emulsion.