

Your Roll No.

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School of Pharmaceutical Education and Research
M. Pharm. I Semester Examination (2023-24)

Subject: Modern Pharmaceutics
 Paper Code: MPH 103T

Date: 13-03-24

Maximum Marks: 75
 Time: Three hours

(Write your Roll No. on the top immediately on receipt of this question paper)

Note: This paper has two Sections; A and B.

Attempt all sections.

Section A: Answer **all** the questions.

Section B: Answer **any 4** out of 6 questions

Abbreviations Used:

CO- Course Outcome, PO- Program Outcome, BTL- Bloom Taxonomy Level: BT level 1-Remember; BT level 2- Understand; BT level 3- Apply; BT level 4- Analyze; BT level 5- Evaluate; BT level 6- Create.

SECTION-A

Answer the following in brief (Attempt all questions)

5x3= 15 Marks

Q. No 1	Question	BTL	CO	PO
(a)	What are the factor f1 and f2? How are these calculated?	1	3	1
(b)	Describe the distribution of forces in a tablet.	3	2,3	2
(c)	What is Response Surface Methodology? Give its advantages.	2	3	3
(d)	Write about Contour designs.	2	4	1
(e)	Write about the formulation consideration for large volume parenteral.	1	3	1

SECTION B

Long type Questions (Attempt any 4 out of 6)

4x15= 60 Marks

	Question	BTL	CO	PO
Q. No 2	Discuss in detail Kinetics involved in stability testing and how it help in calculating shelf life.	3	4	2
Q. No 3	Describe a detailed plan for validation of a granulation process. Give example also.	3	1	2
Q. No 4	Write about the objectives and policies of CGMP. How does it help in designing layout of a manufacturing area.	1	2	1
Q. No 5	Give an insight into the calibration and validation and guidelines for equipment and a process.	4	3	2
Q. No 6	Plan a drug excipient compatibility study of a light sensitive drug nifedipine.	5	2,3	1
Q. No 7	Write in detail about the theory of pharmaceutical dispersions	1,2	1	2