

1 B C
Your Roll No.....

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

Subject: **Pharmaceutics-I**
Paper Code: **BP103T**

Date: **15-03-24**

Time: **Three hours**
Maximum Marks: **75**

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

Note: This paper has 3 sections A, B and C. Attempt all the three sections.

Section A: Answer all the questions;

Section B: Answer any 2 out of 3 questions;

Section C: Answer any 7 out of 9 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

Very Short Type Questions (Attempt all)

2x10 = 20 Marks

Q. No	Question	BTL	CO	PO
1.	What are pharmaceutical aids?	2	3	1
2.	What is the HLB value for surfactants and emulsifying agents?	1	3	3
3	How are effervescent powders different from efflorescent powders?	4	3	3
4	Why is displacement value considered in suppositories?	3	3	1
5	How are syrups prepared?	3	4	1
6	Differentiate between homogeneous and heterogeneous mixtures.	4	4	2
7	Give two characteristics of gels.	6	3	1
8	What is extrudability?	1	4	1
9	What are isotonic solutions?	1	3	3
10	What is the incompatibility in Sodium bicarbonate- Borax recipe?	6	4	3

SECTION B

Long type Questions (Attempt any 2 out of 3)

10x2= 20 Marks

Q. No	Question	BTL	CO	PO
1.	Elaborate on the various solubility enhancement techniques.	4	3	1
2	Explain the various evaluation parameters for a semisolid formulation.	4	4	3
3	Discuss the test for identification and stability issues of pharmaceutical emulsions	3	4	3

SECTION C

Short-type Questions. (Attempt any 7 out of 9 questions)

5x7= 35 Marks

Q. No	Question	BTL	CO	PO
1.	Discuss the incompatibility due to adjuvants.	6	4	1
2.	(a) Calculate the quantity of alcohol 90% required to make 200ml of 45% alcohol. (b) Calculate the dose of a child of 3 months when the adult dose given is 500mg.	4	4	3
3.	(a) Calculate the quantity of boric acid required to prepare a solution iso-osmotic with lachrymal secretion. Molecular weight of boric acid is 62 and it is non-ionizing. (b) How are suppositories prepared?	4,1	4,3	3,2
4.	Elaborate on the types of pharmaceutical incompatibility	2	4	1
5.	Differentiate between flocculated and deflocculated suspensions.	5	4	3
6.	Write a note on Indian Pharmacopoeia	1	1	1
7.	Classify dosage forms.	2	3	1
8.	Write about the history of pharmacy profession.	1	1	1
9.	Discuss the problems related to a prescription.	2	2	3

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