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BPHARM
(SEM I) THEORY EXAMINATION 2024-25
PHARMACEUTICS I – THEORY

TIME: 3 HRS

M.MARKS: 75

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief.

10 x 2 = 20

a.	What role does the drug's molecular size play in its ability to permeate the skin?
b.	Write the mechanism by which flocculating agents work.
c.	What factors would you consider when deciding whether to aim for a flocculated or deflocculated system?
d.	How does the displacement value of a drug influence the choice of suppository base?
e.	Discuss some potential safety concerns associated with excipients in liquid dosage forms.
f.	Define effervescent powders with example.
g.	Define proof spirit.
h.	Define allegation.
i.	Define isotonicity.
j.	Define incompatibility.

SECTION B

2. Attempt any *two* parts of the following:

2 x 10 = 20

a.	When was the first pharmacy school established in India, and what impact did it have on professionalizing the field?
b.	Compare and contrast solid, liquid, and semi-solid dosage forms, highlighting their advantages and disadvantages.
c.	What is the significance of the drug's partition coefficient in determining its distribution between the skin's lipid and aqueous phases?

SECTION C

3. Attempt any *five* parts of the following:

7 x 5 = 35

a.	What is the role of the Indian Pharmacopoeia in promoting standardization and harmonization of pharmaceutical standards globally?
b.	What are the primary factors that influence the appropriate dosage of a medication?
c.	Which countries primarily use the Imperial system, and which primarily use the Metric system?
d.	When would you need to convert between Imperial and Metric units?
e.	What are the benefits of using suspensions in pharmaceutical applications?
f.	What are the common methods for preparing ointments, and what are the advantages and disadvantages of each?
g.	What are the key qualities attributes that need to be evaluated in semi-solid dosage forms?