



PAPER ID-311459

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Subject Code: BP403TRoll No:

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BPHARM
(SEM IV) THEORY EXAMINATION 2025-26
PHYSICAL PHARMACEUTICS II – 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.	Write the principle of falling sphere viscometer.
b.	Define stress; how it is used in deformation of solids.
c.	Write the factors affecting stability of emulsions.
d.	Define porosity.
e.	Define bulkiness.
f.	Define pseudo-zero order reactions.
g.	Define photolytic degradation.
h.	How the particle size can be evaluated?
i.	Write the principle of rotational viscometers.
j.	Define coacervation.

SECTION B

2. Attempt any two parts of the following: 2 x 10 = 20

a.	Write the classification of colloids; differentiate on the basis of general properties.
b.	Write the properties of Newtonian systems.
c.	Write the principle of suspensions; write properties and advantages of suspension dosage form.

SECTION C

3. Attempt any five parts of the following: 7 x 5 = 35

a.	Write the factors influencing the chemical degradation of pharmaceutical products.
b.	Write the methods of stabilization of medicinal agents.
c.	Write the methods of determining particle size of pharmaceutical agents.
d.	Write a note on thixotropy.
e.	Compare between plastic and elastic deformation.
f.	Write the optical properties of colloidal dispersions.
g.	Explain the properties of flocculated suspensions.