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BPHARM
(SEM VII) THEORY EXAMINATION 2023-24
NOVEL DRUG DELIVERY SYSTEM (NDDS) 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.	Define microencapsulation.
b.	Write the advantages of trans mucosal drug delivery system.
c.	Write the principle of inhalers.
d.	Write the principle of nebulizers.
e.	Write the applications of monoclonal antibodies.
f.	Define mucoadhesion.
g.	Define ocuserts.
h.	Define gastro-adhesive system.
i.	Write the principle of osmotic pump.
j.	Write the principle of dissolution.

SECTION B

2. Attempt any two parts of the following:

2 x 10 = 20

a.	Discuss the Physicochemical and biological properties of drugs relevant to controlled release formulations.
b.	Write the development, advantage and disadvantages of intra-uterine devices (IUDs).
c.	Describe liposomes.

SECTION C

3. Attempt any five parts of the following:

7 x 5 = 35

a.	Write the advantages and disadvantages of controlled release drug delivery system.
b.	Write the principle and advantages of microspheres.
c.	Discuss the gastro-adhesive drug delivery system.
d.	Write the concept, advantages and limitations of Niosomes.
e.	Explain the problems associated with ocular drug delivery system.
f.	Discuss the pulmonary route of drug delivery.
g.	Write the basic components of trans drug delivery system.