



Paper ID : 250327

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Subject Code: BP704T

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BPHARMA
(SEM VII) THEORY EXAMINATION 2024-25
NOVEL DRUG DELIVERY SYSTEM (NDDS) – THEOR

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.	Describe polymer matrix diffusion-controlled DDS.
b.	State the functions of the various structural components of liposomes.
c.	Assess the role of monoclonal antibodies (mAb) in drug targeting.
d.	Write the principle of nebulizers.
e.	Define metered dose inhalers.
f.	Discuss limitations of the use of IUDs.
g.	Summarize the term permeation enhancer in drug delivery.
h.	State the principles of bio-adhesion.
i.	Explain the term ocuserts.
j.	Define core and coat materials with respect to microencapsulation.

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

a.	Explain the mechanism of drug release from implants, with special emphasis on osmotic pumps, with suitable diagram(s).
b.	Discuss the different formulation approaches of Transdermal Drug Delivery Systems.
c.	Explain the various requirements of drug candidate to be selected for formulation into controlled drug delivery system.

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

a.	Compare microparticles, microspheres, and microcapsules, with suitable diagrams.
b.	Discuss pulmonary route as a pathway for drug delivery, including its advantages and applications.
c.	Discuss various theories of mucobioadhesion, with illustration.
d.	Briefly explain the different strategies used to overcome ocular barriers for effective drug delivery.
e.	Discuss the formulation and preparation of liposomes.
f.	Discuss the working principle and construction of metered dose inhaler.
g.	Explain different approaches used for drug targeting.