Printed Pages:01 **Sub Code: BP704T**

Paper Id: 231899 **Roll No.** | | | | | | | | | | |

B PHARM
(SEM VII) THEORY EXAMINATION 2022-23
NOVEL DRUG DELIVERY SYSTEM (NDDS)

Time: 3 Hours ***Total Marks: 75***

Note: 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 the term Microencapsulation and Microcapsules.
(b) Explain the functions of the various structural components of Liposomes.
(c) Mention the applications of Monoclonal antibodies on targeted drug delivery.
(d) Define the term 'permeation enhancers' with examples.
(e) Mention basic components of Transdermal drug delivery systems.
(f) Explain Spray drying/spray congealing method.
(g) Mention the advantages anddisadvantages of Buccal drug delivery system.
(h) Define Niosomes and Nanoparticles.
(i) Define Hydrodynamic pressure activate DDS.
(j) Mention different factors affecting transmucosal permeability.

SECTION B

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

(a) Explain the Different formulation approaches of Transdermal Drug Delivery Systems.
(b) Discuss implantable drug delivery system and explain in detail osmotic pump.
(c) Describe the various approaches for designing controlled release formulations.

SECTION C

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

(a) Explain in brief the various methods to overcome ocular barriers for effective drug delivery.
(b) Discuss the Development and applications of IUDs in pharmaceutical drug delivery.
(c) Mention the various formulation approaches for gastro-retentive drug delivery systems. Discuss any one method.
(d) Define targeted drug delivery system and explain the various drug targeting approaches.
(e) Discuss briefly Nebulizer and Metered dose Inhalers.
(f) Define and classify polymers and explain applications of polymers.
(g) Explain the significance and limitations of naso-pulmonary drug delivery systems.

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