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**BPHARM**  
**(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.	Define GRDDS.
b.	Draw the graph of sustained release.
c.	Give examples of pulmonary drug delivery system.
d.	Write the principle of liposomes.
e.	Draw the structure of nebulizer.
f.	Define implants with example.
g.	Define intraocular barriers.
h.	Define metered dose.
i.	Define buccal delivery.
j.	Write the application of Copper-T.

**SECTION B**

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

2 x 10 = 20

a.	Write the principle, method of preparation and use of microspheres.
b.	Discuss the physicochemical properties of drugs which are considered for controlled release formulations.
c.	Discuss the principle and pharmaceutical applications of monoclonal antibodies.

**SECTION C**

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

7 x 5 = 35

a.	Describe the principle, method of preparation and use of ocuserts.
b.	Discuss the advantages and disadvantages of intrauterine devices.
c.	Write the basic components of transdermal drug delivery system.
d.	Explain the principle and pharmaceutical applications of mucoadhesive dosage forms.
e.	Discuss the approaches to design controlled release tablets.
f.	Describe the principle and pharmaceutical applications of osmotic pumps.
g.	Write a note on inhalers.