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IV/IV B. PHARMACY DEGREE EXAMINATIONS, JUNE / JULY -2022

Seventh Semester

**NOVEL DRUG DELIVERY SYSTEM - THEORY**

Time : Three Hours

Maximum : 75 Marks

**SECTION - A**

Answer any FIVE Questions.

5x10 = 50 M

1. Discuss in detail about approaches to design controlled release formulations based on different principles ?
2. Enumerate the physicochemical factors essential to consider to formulate the drug in controlled release formulation ?
3. Define Micro Encapsulation. Write advantages, disadvantages & formulation of microparticles & add a note on their application ?
4. a) Explain Mucosal drug delivery systems and write their advantages & disadvantages ?  
b) Outline the formulation considerations of buccal drug delivery systems ?
5. Discuss the formulation approaches of Transdermal drug delivery system and add a note on permeation through skin & permeation enhancers ?
6. Explain the formulation, advantages, disadvantages of Niosomes.
7. a) Write the objectives & principles involved in the formulation of ocular drug delivery systems.  
b) Describe the concept of designing of ocuserts.

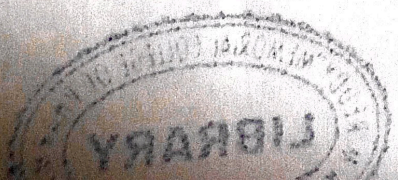
**SECTION - B**

Answer any FIVE Questions.

5x5 = 25 M

8. Give a brief note on polymers used for Enteric coating and add a note on their properties.
9. Write advantages, disadvantages & applications of Intra Uterine devices ?

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10. List out the applications of Monoclonal antibodies of liposomes.
11. Write a short note on Inflatable gastro retentive drug delivery systems ?
12. Discuss the rationale for formulation of drug in the form of Nasopulmonary drug delivery systems ?
13. Define sustained release and delayed release and write criteria for selection of drug for sustained release dosage form.
14. Discuss the formulation of Nebulisers & applications of Nebulisers & Nasal Sprays ?



Total No. of Questions : 14 ]

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**IV/IV B. PHARMACY (REGULAR) DEGREE EXAMINATIONS,  
FEBRUARY- 2022**

**Seventh Semester**

**NOVEL DRUG DELIVERY SYSTEM - THEORY**

**Time : Three Hours**

**Maximum : 75 Marks**

**SECTION - A**

**Answer any FIVE Questions.**

**5x10 = 50 M**

1. Explain the formulations in controlled drug delivery systems.
2. Write the formulations in buccal drug delivery systems.
3. What are the factors effecting permeation of skin in TDDS.
4. a) Write a note on formulation of Inhalers.  
b) Write a note on Nasal sprays.
5. Explain the method of preparation of Niosomes.
6. Write the formulations of Ocular drug delivery systems.
7. a) Write the applications of polymers used in CRDDS. (Controlled Release Drug Delivery Systems).  
b) Explain Osmotic Pump.

**SECTION - B**

**Answer any FIVE Questions.**

**5x5 = 25 M**

8. Write advantage & disadvantages of Microparticles.
9. Explain the concept of Mucoadhesion.
10. Write a note on inflatable systems.
11. Write a note on Monoclonal antibodies.
12. Write the applications of Intra Uterine devices.
13. Explain the Pulmonary routes of drug delivery system.
14. Write a note on high density gastroretentive drug delivery systems.



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Total No. of Questions : 14 ]

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**IV/IV B. PHARMACY (REGULAR) DEGREE EXAMINATIONS,  
FEBRUARY- 2022  
Seventh Semester**

**NOVEL DRUG DELIVERY SYSTEM - THEORY**

Time : Three Hours

Maximum : 75 Marks

**SECTION - A**

Answer any FIVE Questions.

5x10 = 50 M

1. Explain the formulations in controlled drug delivery systems. <sup>6</sup>
2. Write the formulations in buccal drug delivery systems. <sup>11</sup>
3. What are the factors effecting permeation of skin in TDDS. <sup>11</sup>
4. a) Write a note on formulation of Inhalers. <sup>11</sup>  
b) Write a note on Nasal sprays. <sup>11</sup>
5. Explain the method of preparation of Niosomes. <sup>11</sup>
6. Write the formulations of Ocular drug delivery systems. <sup>11</sup>
7. a) Write the applications of polymers used in CRDDS. (Controlled Release Drug Delivery Systems). <sup>11</sup>  
b) Explain Osmotic Pump. <sup>11</sup>

**SECTION - B**

Answer any FIVE Questions.

5x5 = 25 M

8. Write advantage & disadvantages of Microparticles. <sup>11</sup>
9. Explain the concept of Mucoadhesion. <sup>11</sup>
10. Write a note on inflatable systems. <sup>5</sup>
11. Write a note on Monoclonal antibodies. <sup>5</sup>
12. Write the applications of Intra Uterine devices.
13. Explain the Pulmonary routes of drug delivery system.
14. Write a note on high density gastroretentive drug delivery systems.

