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Roll No

MPY-PCS(B)

M.Pharmacy III Semester

Examination, November 2019

Parenteral, Inhalation and Intranasal Drug Delivery Technology

(Elective)

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

All questions carry equal marks.

1. a) Explain the formulation aspects of peptides and proteins parenterals.

 b) What are the different stabilizers used for parenteral formulations of peptides and proteins.

2. a) Describe the designing of depot systems of parenterals.

 b) Write a note on IVIVC of depot systems of liposome and microspheres.

 Explain materials used for implants, its method of sterilization and kinetics of drug release from parenteral implants.

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 a) Explain pharmacokinetics and pharmacodynamics of therapeutic aerosols.

 b) Write a note on delivery of peptides and vaccines through lungs.

5. a) Describe Nasal drug delivery devices.

b) How nasal drug delivery act as targeted drug delivery? 7

6. Explain the following:

Marketed parenteral products of peptides and proteins.

b) Marketed depot systems: Trelstar^R, lupron^R.

7. a) Explain the controlled release micro pump, drug eluting stunts as parenteral implants.

 b) Discuss about physical and mechanical factors affecting drug delivery to lungs.

Write a note on :

) Metered Dose Inhalers (MDI)

Applications of Nasal drug delivery systems.

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