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SVKM'S NMIMS

Shobhaben Pratapbhai Patel / School of Pharmacy & Technology Management

Programme: M.Pharm (Pharmaceutics) **Year:** I **Semester:** I
Academic Year: 2019-20 **Batch**: 2018-2019 **Marks:** 75
Subject: Drug Delivery Systems **Time:** 10.00 am to 1.00 pm
Date:11 December 2019 **Duration:** 3 Hrs
No. of Pages : 01

RE EXAMINATION

Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover of the Answer Book, which is provided for their use.

1) Question No. 1 is compulsory.
2) Out of remaining questions attempt any 4 questions.
3) **In all 5 questions to be attempted.**
4) All questions carry equal marks.
5) **Answer to each new question to be started on a fresh page.**
6) **Figures in brackets on the right hand side indicate full marks.**
7) **Assume suitable data if necessary.**

Section A

Q. 1.	Answer all of the following	3 X 5 = 15
A	Explain modes of adhesion failure in transdermal drug delivery systems.	
B	Explain gastrointestinal dynamics.	
C	How drugs administered by ocular route get absorbed?	
D	Enlist factors influencing design & performance of CRDDS.	
E	Enlist the challenges associated with protein drugs.	
	Section B	
Q. 2. A	Explain formulation considerations for protein drug delivery systems.	7 Marks
Q. 2. B	Discuss the polymers used in CRDDS.	8 Marks
Q. 3. A	Explain evaluation of sustained release dosage forms.	8 Marks
Q. 3. B	How will you evaluate gastro retentive delivery systems?	7 Marks
Q. 4. A	Explain approaches to formulate transdermal patches.	8 Marks
Q. 4. B	How will you evaluate ocular delivery systems?	7 Marks
Q. 5. A	Discuss chemical permeation enhances used in TDDS.	7 Marks
Q. 5. B	Discuss feedback regulated drug delivery system.	8 Marks
Q. 6. A	Enlist adjuvants with examples used in vaccine delivery. Explain their role in Vaccine drug delivery.	7 Marks
Q. 6. B	Discuss different ocular inserts.	8 Marks
Q. 7	Write short notes on- Any THREE i) 3D printing in pharmacy ii) Concept of personalised medicine iii) Degradation of polymers iv) Telepharmacy	5X3 = 15

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