

DO-M-2011126

Seat No.

M. Pharm. (Sem. II) (CBCS) Examination April / May - 2015

NDDS: Multidisciplinary & Regulatory Aspects
(Multidisciplinary / Elective Paper - II)

Time: 3 Hours [Total Marks: 80

Instructions:

- 1. Answer and tie both the sections separately
- 2. Figure to the right indicates marks
- 3. Answer any three (3) questions from each section
- 4. Que. One (1) & Que. Five (5) are compulsory
- 5. Draw neat and clean diagrams as required

SECTION - I

Que.1 Answer Any SEVEN out of given TEN questions

(7x2 = 14)

- a) Define microsphere.
- b) What is controlled drug delivery system?
- c) What do you mean by *In situ* gelling system?
- d) Define multiple emulsion.
- e) Enumerate the approaches of colon targeted drug delivery system.
- f) Give advantages of Nano suspension.
- g) Enumerate the evaluation parameters of transdermal patch.
- h) Give advantages of emulgel.
- i) What is novel drug delivery system?
- j) Give advantages of novel drug delivery system.

Que.2 Answer the following.

a) Write a short note on Gastro-Retentive drug delivery system. (13)

Que	3 Answer the following.	
a)	Explain manufacturing methods of microspheres.	(7)
b)	Discuss the formulation of liposome.	(6)
Que	.4 Answer the following.	
a)	Write a short note on transdermal drug delivery system.	(7)
b)	Discuss the criteria for the selection of drug for colon targeted drug	(6)
	delivery system.	
	SECTION – II	
Que	.5 Answer Any TWO out of given THREE questions.	(2x7 = 14
a)	Write a short note on evaluation of colon targeted tablets.	
b)	Write a short note on micro particulate drug delivery system.	
c)	Give applications of nanoparticles with respect to pharmaceutical field.	
Que	.6 Answer the following.	
a)	Write a short note on liposomal drug delivery system.	(13)
Que	.7 Answer the following.	
a)	Discuss the Formulation development aspects of Herbal Products.	(13)
Que	.8 Answer the following.	
a)	Write a short note on niosomes.	(7)
b)	Discuss recent advances of semisalid dosage form	(6)