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GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. - SEMESTER - II • EXAMINATION - SUMMER - 2018

Subject Code: 2920102	Date: 16/05/2018
Subject Code: 2920102	Date: 10/05/2016

Subject Name: Novel Drug Delivery System Part-I

Time: 10:30 AM TO 01:30 PM Total Marks: 80

Instructions:

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Write ideal characteristics of the drug candidate for the GRDDS. Write the advantages and disadvantages of GRDDS.	06
	(b) (c)	Describe in detail: effervescent based floating drug delivery systems. Enlist the approaches of GRDSS. Explain the various evaluation parameters for GRDDS.	05 05
Q.2	(a) (b)	Discuss in detail: formulation of sublingual dosage form with selection of drug. Enlist the various approaches for colon targeting. Give details of microbial flora activated system for colon targeting.	06 05
	(c)	Explain advantages, limitations and factors affecting drug delivery via buccal route.	05
Q.3	(a)	Define osmotic drug delivery system. Write its principle and mechanism of drug release form dosage form.	06
	(b)	Enlist the different type of osmotic pumps and describe elementary osmotic pump in detail.	05
((c)	Discuss in detail: basic components of osmotic drug delivery system with suitable example.	05
(1	(a)	Enlist the recent innovation techniques developed in capsules. Explain inner cap technology in detail.	06
	(b) (c)	Discuss in detail non-animal capsule shell. Write a short note on "pulsin cap technology".	05 05
Q.5	(a) (b) (c)	Write a note on prefilled syringe technology for injection formulations Discuss in detail: Emulgels. Write a note on Parenteral emulsions.	06 05 05
Q. 6	(a) (b) (c)	Explain the different techniques for particle coating with applications. Explain various approaches of taste masking. Describe the recent innovations in liquid formulation	06 05 05
	(a)	Classify the pharmaceutical packaging material. Discuss in detail factors	06
	(b)	affecting on selection of packaging material. Discuss in detail various types of plastics used in containers with their characteristics.	05
	(c)	Write a note on evaluation test of aerosol packaging containers.	05
