

GUJARAT TECHNOLOGICAL UNIVERSITY
B. PHARM. - SEMESTER-VII • EXAMINATION – WINTER-2016

Subject Code: 2270016

Date: 29/11/2016

Subject Name: Innovations in Conventional Drug Delivery System

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) Describe the technologies used for preparation of fast dissolving tablets	06
	(b) Define orodispersible tablet. Write its salient feature and benefits with its limitation	05
	(c) Discuss the polymers used in formulation of matrix tablet	05
Q.2	(a) Discuss the principle and mechanism of osmotic drug delivery system. Write its merits and demerits	06
	(b) Write the classification of osmotic pump and describe the elementary osmotic pump	05
	(c) Describe the formulation components of osmotic drug delivery system	05
Q.3	(a) Describe in detail innovation made in capsule shell	06
	(b) Write a note on port capsule technology	05
	(c) Describe in detail Pulsincap technology	05
Q.4	(a) Define pellets. Discuss the innovations in pelletization technologies	06
	(b) Write a note on innovation in gel technologies	05
	(c) Classify the ophthalmic innovative formulations. Write its merits against conventional dosage form	05
Q.5	(a) Explain in detail needle free injection technology.	06
	(b) Write a note on prefilled syringe technology for injection formulations.	05
	(c) Explain the recent innovations in parenteral packaging.	05
Q. 6	(a) Explain in detail innovation in liquid dosage form	06
	(b) Discuss in detail ocular insert	05
	(c) Define microemulsion. Write down its evaluation parameters	05
Q.7	(a) Enlist the methods used to prepared nanosuspension and explain bottom up technology	06
	(b) Write a note on characterization of nanosuspension	05
	(c) Describe the innovations in powder aerosols drug delivery.	05
