

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER– VII• EXAMINATION – SUMMER -2018

Subject Code:2270016

Date: 01/06/2018

Subject Name: Innovations in Conventional Drug Delivery System

Time: 02:30PM TO 05:30PM

Total Marks: 80

Instructions:

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

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| Q.1 | (a) What are biodegradable polymers? Give the applications of biodegradable polymers. | 06 |
| | (b) What are the basic components of osmotic drug delivery system? | 05 |
| | (c) Give the significance of fast dispersible tablet. Give the techniques used in preparation of fast dispersible tablet. | 05 |
| Q.2 | (a) Discuss the merits and demerits of sublingual dosage forms. How are they evaluated? | 06 |
| | (b) Explain the innovation in pelletization processes. | 05 |
| | (c) Enlist recent innovations in advances in capsules. Describe any one in detail. Write a note on pulsincap Technology. | 05 |
| Q.3 | (a) What is liposome? Enlist the material used for preparation of liposome. Write about any one method of preparation. | 06 |
| | (b) Different between liposome and niosome. | 05 |
| | (c) Write a note on prefilled syringe technology for injection formulations. | 05 |
| Q.4 | (a) Write a note on needle free injection technology. Write a note on erodible occusert. | 06 |
| | (b) Enlist types of innovation in liquid dosage form. Discuss pharmaceutical applications of nanoemulsion. | 05 |
| | (c) Discuss the limitations of conventional ocular dosage forms. Write a note on innovations in powder aerosols drug delivery. Describe the recent innovations in liquid solution. | 05 |
| Q.5 | (a) Enlist types of innovation in suspension. Discuss pharmaceutical applications of nanosuspension. | 06 |
| | (b) What is microemulsion? Give the evaluation methods for microemulsion. | 05 |
| | (c) Describe various methods for preparation of nanosuspension. | 05 |
| Q. 6 | (a) Explain innovations in aerosols drug delivery. | 06 |
| | (b) Explain innovations in ophthalmic drug delivery. | 05 |
| | (c) Explain innovations in semisolids. | 05 |
| Q.7 | (a) Explain orodispersible tablet in details. | 06 |
| | (b) Explain innovation in capsule shell materials. | 05 |
| | (c) Explain innovations in parenterals drug delivery system. | 05 |
