First Semester M. Pharm Degree Examination - DEC-2017

[Time: 3 Hours]

Customized Drug Delivery System Q.P. CODE: 5110

stra Rajix Gandhi University of Health Sciences

Your answers should be specific to the questions asked. Draw neat, labeled diagrams wherever necessary.

LONG ESSAY (Answer any Three)

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- 1. Explain in detail about biodegradable and non-biodegradable polymers. Discuss in brief about characterization of polymers.
- 2. What are buccal drug delivery systems? Explain the various approaches and evaluation of buccal drug delivery systems.
- 3. Explain the formulation of various types of transdermal delivery systems.
- 4. Define solid lipid nanoparticles. Discuss the methods of formulation and evaluation of solid lipid nanoparticles.

SHORT ESSAY (Answer any Nine)

- 5. Discuss Activation modulated Drug delivery system.
- 6. Explain the concept of partition controlled Drug delivery system.
- 7. Discuss the nasal delivery approach for brain targeting.
- 8. Explain the evaluation parameters of liquid sustained release systems.
- 9. What are permeations enhancers? Explain their mechanisms in transdermal drug delivery with examples.
- 10. Explain formulation and evaluation aspects of skin creams.
- 11. Discuss the steps for production of monoclonal antibodies.
- 12. Write a note on gene therapy.
- 13. Discuss the importance of telepharmcy in the treatment.
- 14. Describe specialized pharmaceutical emulsions.

[Max. Marks: 75]

9 X 5 = 45 Marks

3 X 10 = 30 Marks