FirstRanker.com FirstraRaji Gandhi University of Health Scien Www.FirstRanker.com First Semester M. Pharm Degree Examination - JAN-20

Time: Three Hours

Drug Delivery System Q.P. CODE: 5128

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

LONG ESSAY (Answer any Three)

- 1. Write the classification of polymers with their properties and applications.
- 2. Explain the concepts of gastro retentive drug delivery system. Give the advantages and disadvantages.
- 3. Explain the different approaches for the development of Transdermal delivery system.
- 4. Explain the barriers for protein drug delivery and strategies to overcome these barriers.

SHORT ESSAY (Answer any Nine)

- 5. Write a note on 3D printing of pharmaceuticals.
- 6. Explain the methods to overcome the barriers for drug permeation by ocular route.
- 7. Explain with example the feedback regulated drug delivery systems.
- 8. Explain the techniques for transdermal delivery of vaccines.
- 9. Write a note on pH activated drug delivery system.
- 10. Discuss the various permeation enhancers used in Transdermal delivery system.
- 11. Briefly explain the principle of mucoadhesion.
- 12. Stabilizers used in the preparation of Protein Drug Delivery System
- 13. What do you understand by Telepharmacy?
- 14. Explain mechanical activated delivery system.

Max. Marks: 75 Marks

9 X 5 = 45 Marks

3 X 10 = 30 Marks