Rajiv Gandhi University of Health Sciences

Second Semester M. Pharm Degree Examination - MAY-2018 [Time: 3 Hours] [Max

Computer Aided Drug Delivery System Q.P. CODE: 5171

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

LONG ESSAY (Answer any Three)

- 1. Explain model construction in computer aided GI simulation.
- 2. Describe about concept of optimization and various optimization parameters used in computer aided formulation development.
- 3. Write the Active Transport Systems used in computational modeling of drug disposition.
- 4. Explain the history of computers in pharmaceutical research and development.

SHORT ESSAY (Answer any Nine)

- 5. Write note on clinical data collection process.
- 6. Write short note on population modelling in pharmaceutical research and developments.
- 7. Discuss the importance of solubility and permeability in computational modeling of drug absorption.
- 8. Give pharmaceutical applications of computational fluid dynamics.
- 9. Enumerate the use of computers in market analysis.
- 10. Write the ethics of computing in pharmaceutical research.
- 11. Explain the parameter sensitivity analysis with examples.
- 12. Explain about biowaiver considerations.
- 13. Discuss about advantages and disadvantages of artificial intelligence in pharmaceutical industry.
- 14. Write short notes on regulatory and industry views on QbD.

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[Max. Marks: 75]

3 X 10 = 30 Marks

9 X 5 = 45 Marks