

Rajiv Gandhi University of Health Sciences, Karnataka

Second Semester M. Pharm Degree Examination - 07-Nov-2023

Time: Three Hours

Max. Marks: 75 Marks

COMPUTER AIDED DRUG DELIVERY SYSTEM

Q.P. CODE: 5171

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

Answer All The Questions

10 X 7.5 = 75 Marks

1. Give general overview about the history of computers in pharmaceutical research and development.
2. **Explain in detail Regulatory and Industrial views on QbD with examples.**
3. Describe in detail about computer aided formulation development of microemulsion.
4. **Write a note on mechanistic, descriptive model and optimal design.**
5. Discuss about ethics of computing in pharmaceutical research.
6. Write about factorial design used in optimization.
7. Discuss in detail the use of computers in market analysis.
8. Mention the application of CFD (Computational Fluid Dynamics) in Pharma industry.
9. **Write a note on Computer simulations in whole organism and Isolated tissues.**
10. Write a note on bio-waiver consideration and In-vitro dissolution.

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