

Rajiv Gandhi University of Health Sciences, Karnataka

Second Semester M. Pharm Degree Examination - 22-Nov-2022

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. What is Computational Fluid Dynamics? Give its pharmaceutical application.
2. Explain in detail clinical data management system.
3. Explain techniques used in Computer Aided Formulation Development.
4. Write about the transporters p-glycoprotein and hPEPT₁.
5. Write in detail Quality-by-Design.
6. Write a note on confidence region and population modeling.
7. Write about computer simulation using whole organism and proteins.
8. **Explain optimization parameters and factorial design.**
9. Explain the ethics of computing in pharmaceutical research and write in brief computers in market analysis.
10. Give the current challenges and future directions of Robotics in pharmaceutical development.

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