

Rajiv Gandhi University of Health Sciences, Karnataka

Second Semester M. Pharm Degree Examination - 18-Nov-2021

Time: Three Hours

Max. Marks: 75 Marks

PRINCIPLES OF DRUG DISCOVERY

Q.P. CODE: 5179

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. Elaborate on DNA microarray technique in target identification process.
2. Explain the role of bioinformatics in target identification and validation process.
3. Elaborate on De novo drug design with example.
4. Write a short note on domains, motifs and folds in protein structure.
5. What is virtual screening? Discuss about drug likeness screening.
6. Explain the structure-based pharmacophore modelling for drug design.
7. Write a note on different types of molecular docking. Enlist the softwares used for molecular docking.
8. Enumerate the differences between SAR and QSAR. Add a note on Hansch analysis.
9. Explain the various statistical methods used in QSAR.
10. How prodrug can be designed to improve patient acceptability, drug solubility and absorption.

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