

Rajiv Gandhi University of Health Sciences, Karnataka

Second Semester M. Pharm Degree Examination - 11-Dec-2020

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. Discuss the role of transgenic animals and antisense technologies in target identification.
2. Discuss various traditional drug design methods and list out the rational drug design methods.
3. Discuss the application of NMR and X-ray crystallography in protein structure prediction.
4. Write a note on types and major steps in molecular docking. Give examples of softwares used for molecular docking.
5. Discuss the role of DNA microarrays in target identification.
6. Explain the differences between SAR and QSAR. Write a note on role of QSAR in drug design.
7. Explain the various levels of proteins. Write a note on comparative homology modeling for prediction of protein structure computationally.
8. Discuss the various methods in traditional drug design and high throughput screening.
9. What are the role of Zinc finger proteins and antisense technologies in target identification and validation?
10. Explain the structure based pharmacophore modeling for drug design.

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