

# Rajiv Gandhi University of Health Sciences, Karnataka

Second Semester M. Pharm Degree Examination - 24-Mar-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. Explain the role of proteomics in target identification and validation in drug discovery.
2. Explain the Fee Wilson method with a suitable example.
3. What are the applications of NMR and X-ray crystallography in protein structure prediction?
4. Discuss on fundamentals of QSAR and analysis of results.
5. Explain about role of antisense technologies in target identification and validation.
6. Explain the role of protein microarrays and antisense oligonucleotides.
7. Write a note on lead optimization and economics of drug discovery.
8. Describe traditional drug design and write a note on Homology modeling.
9. How prodrug can be designed to improve solubility, absorption and distribution.
10. Discuss the role of Rigid and Flexible docking based drug design.

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