

Rajiv Gandhi University of Health Sciences, Karnataka

Second Semester M. Pharm Degree Examination - 25-Jul-2022

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 in target validation.
2. Explain the differences between SAR and QSAR. Write a note on role of QSAR in drug design.
3. Explain the role of NMR and X-ray crystallography in protein structure prediction.
4. Discuss how prodrugs improve patient's acceptability, drugs solubility, drug distribution and drug absorption.
5. Explain about the role of high throughput screening in rational drug design.
6. Define pharmacophore. Explain the concept of structure based pharmacophore modeling.
7. Write a note on De novo drug design.
8. Explain about role of siRNA's in target identification and validation.
9. Discuss the role of DNA microarrays in target identification.
10. Write a note on types and major steps in molecular docking. Give examples of softwares used for molecular docking.

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