

Rajiv Gandhi University of Health Sciences, Karnataka

Second Semester M. Pharm Degree Examination - 04-Jun-2024

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 Nucleic acid microarrays.
2. Explain the role of transgenic animals in target validation.
3. Explain differences between traditional and rational drug design.
4. What are the application of NMR and X-ray crystallography in protein structure prediction?
5. Write a note on De-nova drug design.
6. How pro drug can be designed to improve solubility, absorption and distribution.
7. Explain the concept of pharmacophore based screening.
8. Write a note on 3D-QSAR approach like COMFA (Comparative Molecular Field Analysis).
9. Explain the Hansch analysis method with a suitable example.
10. Explain the regression analysis and partial least square analysis in QSAR.

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