NG ESSAY (Answer any Three) 　　　　　　　　　　　　**3 X 10 = 30 Marks**
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1. Enumerate target identification and target validation in drug discovery.

2. What are the types of molecular docking? Explain any two-docking based screening method.

3. Explain the methods involved in traditional drug design.

4. Explain the different virtual screening techniques in drug discovery.

SHORT ESSAY (Answer any Nine) 　　　　　　　　　　　**9 X 5 = 45 Marks**

5. Explain the role of molecular modeling in drug design.

6. Describe the rational of prodrug design.

7. Write a note on De-nova drug design.

8. Explain the role of nucleic acid microarray in target drug discovery.

9. Write a note on statistical methods used in QSAR analysis.

10. Discuss the concepts of rational drug design.

11. Explain about role of transgenic animals in target validation.

12. Explain about the levels of protein structure.

13. Explain about rigid docking in molecular modeling.

14. Write a note on 3D-QSAR.

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