

School of Basic and Applied Sciences

BioScience
ETE - Jun 2024

Time : 3 Hours

Marks :100

SEM IV - BBBMBT4005 -Drug Discovery and Development

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

1. Differentiate between Drug Discovery & Drug development process. K2 CO1 (4)
2. Explore the Steps involved in pre-clinical studies K2 CO2 (4)
3. Define the Bioassay. K3 CO3 (4)
4. Explain the significance of Homology modeling. K3 CO4 (4)
5. Compare the Solution phase synthesis with Solid phase synthesis. K4 CO5 (4)

6. Examine the limitations of DNA-based Drug Discovery. K3 CO1(10)
7. Examine the importance of Lipophilicity. K3 CO2(10)
8. Illustrate the Nanoparticles Drug Delivery system for Neurological Disorders. K6 CO6(12)

9. A researcher has identified a synthetic molecule that can enhance memory. She wants to evaluate the efficacy of the identified compound in the Alzheimer's mice model. Suggest a behavioral test and procedure for the same. K4 CO3(16)
10. Explain the importance and uses of Y-maze, Radial Arm Maze, Water Maze and Rotarod tests. K4 CO4(16)
11. Elaborate the high-throughput screening process. K5 CO5(16)