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Your answers should be specific come questions asked Stranker.com

Draw neat labeled diagrams wherever necessary. Answer FOUR questions

ANSWER ANY FOUR

4 X 25 = 100 Marks

- 1. a) Explain with examples the role of Hammet and Taft constants in QSAR studies
 - b) what do you know of topology modelling? Discuss its importance
 - c) Mention the various reagents employed and their specific uses in the structural biology studies related to genetically engineered drug discovery
- 2. a) Discuss with examples the various drug receptor interactions and explain their importance in drug design
 - b) What do you know of free willson analysis? Mention its limitations
 - c) Give an account of Monte Carlo simulations used in molecular mechanics
- 3. a) What is direct discovery? Explain with examples
 - b) Give an account of radioligand binding assays
 - c) Write briefly on natural product libraries
- 4. Explain the importance of the following in drug design
 - a) Biostseric replacements
 - b) Backbone cyclization
 - c) Non peptide ligands
- 5. a) Discuss the different in vivo and in vitro assays for studying gastric acid inhibitors
 - b) Give an account of immunosuppressive drugs obtained from natural sources
 - c) Explain the role of pKa in drug design studies
- 6. a) Discuss the various empirical approaches used in the estimation of partition coefficient
 - b) What is receptor based drug design
 - c) What is dose response analysis
 - d) How is Hansch analysis useful in QSAR of antitumor agents

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