



3 X 10 = 30 Marks

- Explain different experimental experimental experimental physicochemical parameters.
- Discuss about the agents acting on DHFR and HIV protease enzymes.
- How do you predict ADMET properties of small molecules and what is their importance in drug design?
- 4. What is pharmacophore? Explain the concept, mapping and modeling of pharmacophore.

## SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

- Enlist various methods used for calculation of partition co-efficient. Explain any one method.
- Explain historical development of QSAR.
- Discuss the relationship between Hansch and Free Wilson analysis.
- 8. What are the primary requirements to carry out a 3D QSAR study?
- Explain the role of contour map analysis in 3D QSAR.
- 10. Discuss the role of quantum mechanics in drug design.
- 11. Discuss in brief about fragment-based drug design.
- 12. Define molecular docking and discuss the different methods of molecular docking.
- Discuss in detail about Virtual screening techniques.
- 14. Explain briefly about modeling and generation of 3D structure of proteins.

www.FirstRanker.com

