

QP CODE: 213331

Reg. No:.....

Second Semester M. Pharm Degree Supplementary Examinations
January 2020

M.Pharm (Pharmaceutical Chemistry)

Paper III - Computer Aided Drug Design (MPC203T)

(2017 Scheme)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Compare and contrast rigid docking with flexible/induced fit docking
2. Explain Hansch and Free Wilson method of analysis with a suitable example and relationship between them
3. What is a pharmacophore. Explain pharmacophore mapping and pharmacophore modelling. Give a method for the identification of a pharmacophore

Short Notes

(9x5=45)

4. Structure based *Insilico* virtual screening protocols
5. Explain the statistical methods used in QSAR analysis
6. Describe the docking of agents on AchE
7. Explain the method of generation of 3D- structure of a protein using homology modelling
8. Fragment based drug design
9. Energy minimization method
10. Explain extra precision docking
11. Explain the electronic parameters to be considered in QSAR
12. Discuss the role of computer aided drug design in drug discovery
