

QP CODE: 213331

Reg. No:.....

Second Semester M.Pharm Degree Examinations August 2018

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. Give a detailed account on QSAR studies and their implications.
2. Explain the different energy minimization methods. Add a note on agents acting on the enzymes DHFR and HMG-CoA reductase
3. Give a detailed account on pharmacophore mapping and pharmacophore based screening

Short Notes

(9x5=45)

4. Fragment based drug design
5. Hansch analysis.
6. Homology modeling
7. Force field used in molecular mechanics
8. Drug design based on ADMET predictions
9. Structure based In-silico virtual screening protocols
10. Statistical methods used in QSAR analysis
11. Differentiate between rigid docking and flexible docking
12. Applications of quantum mechanics in drug design
