Second Semester M. Pharm Degree Regular/Supplementary Examinations May 2022

M.Pharm (Pharmaceutical Chemistry)

Paper III - Computer Aided Drug Design (MPC203T)

Time: 3 Hours   **Total Marks: 75**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary.*

Essays   **(3x10=30)**

1. Explain Hansch QSAR analysis

2. Explain De novo drug design

3. Explain flexible and rigid docking in detail

Short Notes   **(9x5=45)**

4. Steric parameters

5. Discuss contour map analysis

6. Molecular mechanics in drug design

7. Energy minimization methods

8. Fragment based drug design

9. Concept of pharmacophore

10. Conformational search in pharmacophore mapping

11. Insilico virtual screening protocols

12. Agents acting on HIV protease

****