QP CODE: 213331   Reg. No:…………………

Second Semester M. Pharm Degree Supplementary Examinations December 2023

M.Pharm (Pharmaceutical Chemistry)

Paper III - Computer Aided Drug Design (MPC203T)

(Common for 2017 and 2019 Scheme)

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. Write a note on molecular docking procedures in rigid and flexible docking.

2. Explain the 3D-QSAR approaches and its advantages over 2D-QSAR.

3. Explain how pharmacophore mapping is useful in drug design.

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

4. Importance of ADMET properties in drug design.

5. Write the applications of Computer Aided Drug Design.

6. Explain the concept of *de-novo* drug design.

7. Explain on electronic parameters used in QSAR analysis.

8. Explain the different energy minimization methods used in molecular modeling.

9. Describe *in-silico* virtual screening techniques.

10. Explain the role of various physicochemical parameters in QSAR

11. Explain fragment based drug design

12. Explain extra precision docking.

****