Second Semester M. Pharm Degree Supplementary Examinations August 2021

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 the different method involved in quantum mechanics.

2. How Hansch analysis differs from free Wilson analysis. List out the merits and demerits.

3. Explain the different techniques used in virtual screening.

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

4. Steric parameters of QSAR.

5. How to predict ADMET properties of new molecules.

6. Approaches involved in 3D-QSAR.

7. Explain the experimental protocols in homology modeling.

8. Explain the process in pharmacophore modeling.

9. List out the applications of QSAR.

10. Explain hammet equation and give its importance

11. Explain extra-precision docking method with suitable example

12. Explain fragment based drug design with suitable example.

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