(3 Hours) 22

QP Code: 5184

[Total Marks: 80

N.B: Q1 is compulsory

Answer any three out of remaining five questions

Draw neat and labeled diagram wherever necessary.

Q1] Describe QSAR and explain how to identify and quantify the physicochemical property	erties cf
a drug and describe how these properties has an effect on the drugs biological activity.	2 0M

Q2] i) List and describe the role of various types of chaperones.

ii) Explain the features of torsion angle and Cartesian coordinates 10M

Q3]i) Describe the various features and process of protein ligand docking.

ii) Describe 3D QSAR 10M

Q4]i) Explain the importance of clustering and describe the different methods of clustering algorithms.

ii)Explain the process of energy minimization 10M

Q5] i) Describe the various features of interoperability.

ii) Describe various Protein ligands interactions

Q6]i) Define Prodrugs and explain its features and describe how endogenous compounds can be used as drug molecules.

ii) Describe the various methods of Macline learning and there role in bioinformatics 10M



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