

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No

BP-804T(C)/PY-804 (C)-CBGS

**B.Pharmacy VIII Semester (PCI Scheme)/
(Non-PCI Scheme)**

Examination, June 2020

Choice Based Grading System (CBGS)

Computer Aided Drug Design

Time : Three Hours

Maximum Marks : 75

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. Discuss various stages of Drug discovery and development.
2. Discuss various physicochemical parameters used in Quantitative Structure Activity Relationship (QSAR).
3. Explain role of various techniques of virtual screening in the process of drug discovery and development.
4. Compare various aspects related to the rigid docking, flexible docking and manual docking.
5. Give significance of bioinformatics and chemoinformatics databases in drug discovery and development.
6. Write a note on rational approaches to lead discovery based on traditional medicine and lead discovery based on clinical observation.

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[2]

7. Explain concept of molecular mechanics and quantum mechanics, discuss methods of Energy minimization.
8. Write short note on any two of followings.
 - a) Bioisosterism
 - b) COMFA and COMSIA
 - c) *De novo* drug design

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