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Roll No .....

PY-804(B) (GS)

B. Pharmacy VIII Semester Examination, June 2020

Grading System (GS)

Drug Discovery and Development

(Elective - I)

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. Enumerate different methods to correlate physico-chemical properties with biological activity. Discuss De-niro method.

2. Give a detailed account of academic freeware and commercial softwares and their applications in drug discovery.

3. Write a detailed note on protein homology modelling by artificial intelligence technique and statistical analysis in protein modelling.

4. Define pharmacophore. How will you identify a pharmacophore on a lead molecule. Explain with suitable example.

5. Discuss various theories of drug-receptor interactions.

6. Write short notes on any two of the following:
   a) Structure Based Drug Design.
   b) Ligand Based Drug Design.
   c) Free Wilson analysis.

7. Explain the followings-
   i) Hansch Analysis
   ii) Energy minimization in CADD

8. Write short notes on (any two)
   a) Statistical methods in QSAR
   b) Applications of Bioinformatics
   c) Virtual screening

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