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B.PHARM. (SEM VIII) THEORY EXAMINATION 2022-23 COMPUTER AIDED DRUG DESIGN

Time: 3 Hours Total Marks: 75

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief.

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- (a) What various stages of drug discovery?
- (b) What is Phase 0 clinical trial?
- (c) What is non-classical bioisosteres?
- (d) What is Taft's steric factor (Es)?

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- (e) Write down the drawbacks and limitations of CoMFA.
- (f) What do you understand by the term Pharmacophore?
- (g) Give the names of molecular docking models.
- (h) What do you understand by the term "Binding mode"?
- (i) What isOrangebook?
- (j) What is various chemical structure representation used for chemical structures in digital databases?

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SECTION B

2. Attempt any two parts of the following:

 $2 \times 10 = 20$

- (a) Write in detail about the drug likeness screening with the various filter used in drug likeness screening.
- (b) What is cheminformatics? Write in detail about the various tools and steps involved in cheminformatics system.
- (c) What do you understand by Force field? Discuss various novel technique used in molecular modeling

SECTION C

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3. Attempt any *five* parts of the following:

 $5 \times 7 = 35$

- (a) Write in detail about the Free-Wilson approach to QSAR.
- (b) What do you understand by conformational analysis? Write Different methods used to determine information regarding conformations.
- (c) Write in detail about the Quantum mechanics methods of Molecular modelling.
- (d) Discuss in detail about the De-novo drug design with steps involved in it.
- (e) Differentiate between SAR and QSAR.
- (f) Discuss in detail about Ligand-based pharmacophore modeling.
- (g) Discuss in detail about various lead discoveries based on traditional medicine with suitable examples. https://pharmacyindia.co.in/

(⊕pharmacyindia.co.in | ⊚pharmacyindia24@gmail.com | **()** 8171313561, 8006781759

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