entral Universities Act 2009)

Dharamshala, District Kangra, Himachal Pradesh-176215

Course: Computer Aided Drug Design

Maximum Marks: 20

(02 Credits)

Code: BIN 465

Time: 1 hour

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Section - A (All questions are compulsory) (5x + 5)

- 1. Write a note on following:
 - a. Pharmacokinenes?

 - Discuss Lead vs Hit compound?
 - SAR? Structure activity relationshy

Section - B (Attempt any two questions)

 $(2 \times 2.5 = 5)$

- What is hydrophobic substituent constant (π) ?
- What is QSAR? Name 3 most important parameters of QSAR preferably studied for drug design.
- law lin sighylococus What is serendipity, discuss with example?
- Discuss Bioisosterism in light of one case study

Section - C (Attempt any two questions)

 $(2 \times 5 = 10)$

Darrigen Dia Martin, Metabolism Exclusion, Toxing.

- What do mean by ADMET? How are these drug likeliness properties important in drug design?
- 7. Discuss historical events in the development of CADD. Draw flow chart showing sequential events in Drug Discovery starting from Target Identification. (Flow chart only)
- & Discuss partition coefficient (P). Discuss significance of log P vs log (1/C) graph.
- 9 Discuss atleast 3 approaches used for Optimisation of Lead Structure