

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2024

MSc-IV Semester (BT)

COURSE CODE(CREDITS): 20MSWBT432 (2)

MAX. MARKS: 15

COURSE NAME: Drug Discovery & Development

COURSE INSTRUCTORS: Dr. Udayabanu

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

(b) Marks are indicated against each question in square brackets.

(c) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

1. How high-throughput screening would impact drug discovery process? Justify with an example [3 Marks]
2. Identification of isozymes that predominate in some tissues, but not others, allows the possibility of designing tissue-selective enzyme inhibitors. Justify with examples. [3 Marks]
3. What is combinatorial chemistry? Design a strategy and method for 'lead' discovery using combinatorial library. [3 Marks]
4. Disulfiram and Orlistat act as an irreversible inhibitor. Explain with their mechanism. [3 Marks]
5. Write a note on following terms: [3 Marks]
 - a. Molecular docking
 - b. Molecular dynamics
 - c. Homology modeling