

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATIONS-2022

MSc-IV Semester (BT)

COURSE CODE: Drug Discovery and Development

MAX. MARKS: 15

COURSE NAME: 20MSWBT433

COURSE CREDITS: 02

MAX. TIME: 1 Hour

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*Note: All questions are compulsory. Marks are indicated against each question in square brackets.*

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- Q1. What is competitive inhibition? How antifreeze poisoning could be managed? [2 Marks]
- Q2. Orlistat acts on which enzyme to execute its anti-obesity property [1 Mark]
- Q3. Give an example for suicide substrate. How it could be of clinical significance? [1 Mark]
- Q4. What is an inverse agonist? How does it differ from an antagonist? [1 Mark]
- Q5. Affinity, Efficacy and Potency are related to receptor drug interaction. How would you define these terms [1.5 Mark]
- Q6. What would be the consequence if receptor-drug complex is stronger and exists for an extended period of time[1 Mark]
- Q7. How does intercalating drugs act on DNA? Explain the mechanism with an example.[2.5 Marks]
- Q8. Topoisomerase poisons stabilize the enzyme-DNA complex. How this concept is beneficial in drug design? [2.5 Marks]
- Q9. Briefly discuss the properties of alkylating agents and give examples. [2.5 Marks]