

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- FEB-2023

COURSE CODE(CREDITS): 20MSWBT432 (2)

MAX. MARKS: 15

COURSE NAME: Drug Discovery and Development

COURSE INSTRUCTORS: Dr. Udayabanu

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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1. If a drug is to be truly 'good' it would have to do what it is meant to do, have no toxic or unwanted side effects. How many drugs do you think would fit these criteria? Discuss some drugs which are safe and dangerous. [3 Marks]
2. Interaction of drugs with the binding sites of macromolecules might occur through intermolecular bonds. Explain any two intermolecular binding forces. [3 Marks]
3. Is it true that all irreversible inhibitors are not highly toxic? Try to give examples where irreversible inhibitors are also clinically safe. [3 Marks]
4. Drugs can also operate via suicide substrates because the enzyme is committing suicide by reacting with them. Justify with an example. [3 Marks]
5. Some competitive inhibitors bind to the active site, but do not compete with the substrate. How can this occur? [3 marks]