JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

M.Sc-IV Semester (BT/BI)

COURSE CODE (CREDITS): 20MSWBT432 (2) MAX. MARKS: 15

COURSE NAME: Drug Discovery and Development

COURSE INSTRUCTOR: Dr. Udayabanu MAX. TIME: 1 Hour

Note: *(a) All questions are compulsory.*

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

(c) Use of calculators is not allowed

Q.No	Question	Marks
Q1	Explain the sources of drug and write a note on the ancient system of medicine.	3
Q2	Differentiate un-competitive and non-competitive inhibitors. Suggest a suicidal substrate that can be used clinical without possessing medicinal property.	3
Q3	Demonstrate that platinum based molecule can be evolved into medicinally important anti cancer compound. Give examples for intercalating agents.	3
Q4	Justify the role of high through put screening and combinatorial library in drug discovery process.	3
Q5	Calculate the partition coefficient of the given drug. Concentration of drug in octanol is 100mg and concentration of drug in water is 2g. How hydrophobic character of a drug molecule is crucial to cross blood brain barrier?	3

JUIT TEST 1 EXAMINATION- FEB-2026

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