JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2025

B.Tech-III Semester (BT/BI)

COURSE CODE (CREDITS): 25B11BI312 (3) **MAX. MARKS: 15**

COURSE NAME: Bioinformatics data management

COURSE INSTRUCTORS: Dr. Shikha Mittal **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*

Q.No	Question	CO	Marks
Q1	What are the problems in file system data management? Explain in detail with relevant example.	CO-I	(03)
Q2	Describe about various keys in relational model. Explain in detail.	CO-I	(03)
Q3.	Consider the following table: 	SID	Name	Age	Major
101	Alice	20	CS
102	Bob	21	Math
103	Carol	22	CS
104	Dave	23	Physics | a) Find the names of all students majoring in CS. b) Find all students who are older than 21 years. c) List all student IDs and their majors.	CO-I & CO-II	(03)
Q4.	Explain the following – a) DDL and DML b) Integrity Constraints c) Data Independence	CO-I & CO-II	(06)