JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

B.Tech-IV Semester (ECE)

COURSE CODE (CREDITS):25B11CI415(4) MAX. MARKS: 15

COURSE NAME: Introduction of Database Management System.

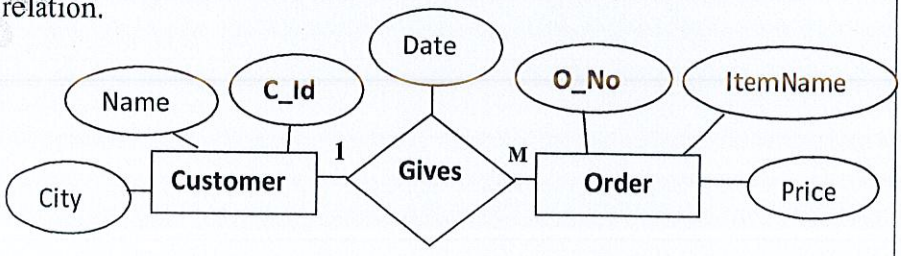
COURSE INSTRUCTOR: Deepika Bhaik. MAX. TIME: 1 Hour

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.

MID-TERM EXAMINATION FEB-2026

Q.No	Question	CO	Marks
Q1	Explain the 3-schema architecture of Database Management System and its importance in data independence.	CO1	3
Q2	Discuss briefly various types of Integrity Constraints.	CO2	3
Q3	Consider the following tables: **Student** **RollNo** | Name | Address 1 | Amit | Delhi 2 | Sunil | Mumbai 3 | Arun | Chandigarh **Course** **CourseId** | Name | RNo C1 | DBMS | 1 C2 | Python | 2 Which of the following Insertion, Deletion and Updation will cause integrity constraints violation : 1. Insertion of tuple "1, Kumud , Waknaghat" in Student table. 2. Insertion of tuple "C3, Python, 4" in Course table. 3. Deletion of tuple "2, Sunil, Mumbai" from Student table. 4. Deletion of tuple "C2, Python, 2"fronm Course table. 5. Updation of RollNo. Of the 2nd tuple in the Student table. 6. Updation of the address attribute of RollNo 3 in Student table.	CO2	3 (0.5X6)
Q4	Write a note on different notations used for ER diagrams.	CO2	3
Q5	For the following ER diagram, convert it into a set of relational schemas. Clearly specify primary keys and foreign keys for each relation.  	CO2	3