

INDIRA UNIVERSITY, PUNE

SCHOOL OF INFORMATION TECHNOLOGY – BSC AIML

Term End Examination (2025 Pattern) April- May – 2026- Semester – II

Course Name: Database Management System
Course Code: 25AML209T

Max. Marks: 25
Time: 1 Hr. 30 Minutes

Instructions

- All the questions are mandatory.

Q1.	Attempt any 5 out of 7. (1 Mark each) 1 List out functions of database. 2. What is significance of Primary Key? 3. Define Attribute. 4. What is the purpose of “where” clause in SQL query. 5. What is use of “like” clause in SQL? 6. What is Data Decomposition? 7. Define 1NF	(5 Marks)	CO1
Q2.	Attempt any 2 out of 4. (5 marks each) 1. Illustrate different types of users in a DBMS and their respective roles. 2. Explain extended ER features 3. Explain the concept of views in SQL. 4. Explain Armstrong’s Axioms for functional dependencies	(10 Marks)	CO2
Q.3	Attempt all questions- (5 marks each) 1. Consider following scenario. Instructors teach courses. Students register for courses. Courses are allocated classrooms. Instructors guide students. Identify all entities and attributes. Construct ER diagram. 2. Consider the following entities & relationships and solve the queries. Property (P.no, DESC, area, rate) Owner (owner-name, addr. phno). Relation between owner & property is one to many. i) Display property owned by Mrs. Patil. ii) Display all properties with area = “Chinchwad” iii) Display all property whose Rate > 1CR.	(10 Marks)	CO3

Q.3	OR Attempt all questions - A] Let R(A, B, C, D, E) is a relational schema with the following functional dependencies: $F = \{A \rightarrow BC, CD \rightarrow E, B \rightarrow D, E \rightarrow A\}$ Identify the F+ Closure (5 marks) B] Identify the use of following DDL Commands (3 marks) 1. Create 2. Alter with syntax. C] Develop a query using group by clause (2 marks)	CO3
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