

Term Evaluation (Odd) Semester Examination September 2025

	Roll no
Name of the Course and semester: BCA 3rd Semester Name of the Paper: Introduction to Database Management System Paper Code: TBC 302 / TBI 302 / TBD 302	
Time: 1.5 hour	Maximum Marks: 50
Note: (i) Answer all the questions by choosing any one of the sub questions (ii) Each question carries 10 marks.	
Q1. a. Explain in detail the differences between a File System and a Database OR	(10 Marks) (CO1) Management System (DBMS
b. What do you mean by Data Independence? Discuss its types with exar	mples. (CO1)
Q2.	(10 Marks) (CC2)
 a. Design an ER model for a University Database. The university database should include entities such as Students, Couldefine: 	rses, and Professors. Clearly
 The entities and their key attributes. The relationships among Students, Courses, and Professors. The constraints such as cardinality (one-to-one, one-to-many, or m Any additional entities (e.g., Departments, Enrollment, Grades) that Draw a well-labelled ER diagram representing the structure 	
OR b. Explain mapping constraints in ER modeling. Give suitable examples	(CO2)
Q3.	(10 Marks) (CO1)
a. Define DBMS languages and list the commands associated with ear OR	ach type.
b. Explain any Five codd's rule.	(CO2)
Q4. Explain the important role of keys in database design and data integrit keys in DBMS with suitable examples.	(10 Marks) (CO2) ity. Describe different types o
OR Define integrity constraints in the relational data model and list their	types with examples. (CC!)
25. Define the following terms:	(10 Marks) (CO2)
Define the following terms: Schema and Instances	
GeneralizationAggregation	
Strong Entity and Weak Entity	

Single Valued and Multi Valued attribute