

# END TERM EXAMINATION

SECOND SEMESTER [BCA] MAY-JUNE, 2025

**Paper Code: BCA-102T**

**Subject: Database Management System**

**Time: 3 Hours**

**Maximum Marks: 60**

**Note: Attempt all questions as directed. Internal choice is indicated.**

- Q1 Attempt **any Four** of the following questions: (4×5=20)
- (a) What are the main functions of a DBA?
  - (b) Explain data independence.
  - (c) List some popular data models.
  - (d) What is ER Model? Why it is important?
  - (e) Write disadvantages of direct file organization.
  - (f) What is the syntax for creating an explicit cursor?
  - (g) Define denormalization.
  - (h) What do you mean by view serializability?
- Q2 Compare and contrast between external, logical and physical view. (10)
- OR**
- Q3 Explain the features of Network model. (10)
- Q4 Construct an ER diagram for the registrar's office. Document all assumptions you make about the mapping constraints. (10)
- OR**
- Q5 Explain the different hash function with example. (10)
- Q6 What is relational integrity? How it is implemented? (10)
- OR**
- Q7 What predefined exception is used to identify the situation where no data is returned by a select statement. (10)
- Q8 State the ACID properties of a Transaction. (10)
- OR**
- Q9 What is Integrity threat? How it can be avoided. (10)

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P-1/1