

Course
&
Test Series

Self-Made Assignment - Data and Database Management System

DBMS- ER Model

You have to write the answers to the questions in your notebook and write the descriptive questions in your own language:

Multiple Choice Questions (MCQs):

Ques 1- What does the ER model primarily help with in database design?

- A) Data security
- B) Performance optimization
- C) Visualizing data structure and relationships
- D) User authentication

Ques 2- In an ER diagram, an entity is represented by which shape?

- A) Oval
- B) Diamond
- C) Rectangle
- D) Triangle

Ques 3- Which type of attribute can be broken down into smaller parts?

- A) Simple
- B) Derived
- C) Composite
- D) Multivalued

Ques 4- Which relationship type best describes: "A student can enroll in many courses, and a course can have many students"?

- A) One-to-One
- B) One-to-Many
- C) Many-to-One
- D) Many-to-Many

Ques 5- In ER diagrams, which of the following is used to represent a derived attribute?

- A) Single oval
- B) Double oval
- C) Dashed oval
- D) Underlined oval

True/False Questions:

1. An entity set is a collection of similar entities.
2. In ER diagrams, relationships are shown using rectangles.
3. A composite attribute cannot be divided into smaller attributes.
4. A key attribute is always underlined in ER diagrams.
5. One-to-One relationships are the most common in database design.

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Matching Questions:

Column A - Concept	Column B - Description
A. Entity	1. Real-world object represented as a rectangle in ER diagram
B. Attribute	2. Property of an entity, represented as an oval
C. Relationship	3. Association between two entities, shown as a diamond
D. Derived Attribute	4. Calculated from other data, shown as a dashed oval
E. Multivalued Attribute	5. Can hold multiple values, shown as a double oval

Descriptive Questions:

Ques 1- Explain the different types of attributes in the ER model. Use examples and describe how they are represented in ER diagrams.

Ques 2- Design an ER diagram for a Library Management System. Identify at least three entities, their attributes, and explain the relationships between them, including attributes for the relationships.

