

CS-403 Final Term Exams Preparation Virtual University

Sr	Questions	Answers Choice
1	Select the correct statement among the following.	<p>A. Role names are not technically necessary in relationship types when all the participating entity types are distinct</p> <p>B. When different entity types participate only once in a single relationship type it is called a recursive relationship.</p> <p>C. Cardinality ratios for binary relationship are displayed on Entity Relationship Diagrams by using a diamond shape notation.</p> <p>D. Partial participation which is also called existence dependency is displayed as a double line connecting the participating entity type to the relationship.</p>
2	Which of the following is true about NOT NULL constraint?	<p>A. enforce domain integrity</p> <p>B. limit the values that can be placed in a column</p> <p>C. prevents any actions that would destroy links between tables with the corresponding data values</p> <p>D. enforces the uniqueness of the values in a set of columns</p>
3	The ER- data model is an example of:	<p>A. Physical database</p> <p>B. Logical database</p> <p>C. Relational database</p> <p>D. Conceptual database</p>
4	A database system allows the following EXCEPT	<p>A. management and control of data towards an efficient working of an organisation</p> <p>B. more critical functions in organisations to be computerised and the need to keep a large volume of data available in an up to the minute current state increased.</p> <p>C. any user to access all its data</p> <p>D. integration of data across multiple applications into a single application.</p>
5	Which of the following concepts is applicable with respect to 2NF?	<p>A. Full functional dependency</p> <p>B. Any kind of dependency</p> <p>C. Transitive dependency</p> <p>D. Non-transitive dependency</p>
6	Database management systems, operating systems, applications and utilities are all examples of ____.	<p>A. hardware</p> <p>B. software</p> <p>C. computer infrastructure</p> <p>D. input and output</p>
7	The ____ constraint specifies whether each entity supertype occurrence must also be a member of at least one subtype	<p>A. specialization</p> <p>B. uniqueness</p> <p>C. inheritance</p> <p>D. completeness</p>
8	A collection of concepts that can be used to describe the structure of a database	<p>A. Database</p> <p>B. DBMS</p> <p>C. Data model</p> <p>D. Data</p>
9	Identify the INCORRECT statement among the given.	<p>A. An entity may be an object with a physical existence like a car, a house or an Employee</p> <p>B. One cannot consider something which has conceptual existence like a course in a degree program as an entity</p> <p>C. Age can be considered as a single value attribute of a person.</p> <p>D. An entity type describes the schema or intension for a set of entities which share the same</p>

entities which share the same structure.

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Consider the relation Interview(CandidateNo, InterviewDate, InterviewTime, StaffNo, RoomNo) and the following functional dependencies. FD1 : CandidateNo, InterviewDate \rightarrow InterviewTime, StaffNo, RoomNo FD2 : RoomNo, InterviewDate, InterviewTime \rightarrow StaffNo, CandidateNo FD3 : StaffNo, InterviewDate \rightarrow RoomNo Which of the following is correct?

- A. The relation Interview is in 3NF
- B. The relation Interview is in BCNF.
- C. The FD3 violates 3NF.
- D. The FD2 violates 2NF