

Answer all the questions

1.Which of the following gives a logical structure of the database graphically ?

- a) Entity-relationship diagram
- b) Entity diagram
- c) Database diagram
- d) Architectural representation

2.An _____ is a set of entities of the same type that share the same properties, or attributes .

- a) Entity set
- b) Attribute set
- c) Relation set
- d) Entity model

3.Entity is a

- a) Object of relation
- b) Present working model
- c) Thing in real world
- d) Model of relation

4.The descriptive property possessed by each entity set is _____ .

- a) Entity
- b) Attribute
- c) Relation
- d) Model

5.The function that an entity plays in a relationship is called that entity's _____ .

- a) Participation
- b) Position
- c) Role
- d) Instance

6.The attribute *name* could be structured as a attribute consisting of first name, middle initial, and last name . This type of attribute is called

- a) Simple attribute
- b) Composite attribute
- c) Multivalued attribute
- d) Derived attribute

7.The attribute AGE is calculated from DATE_OF_BIRTH . The attribute AGE is

- a) Single valued
- b) Multi valued
- c) Composite
- d) Derived

8.Which of the following can be a multivalued attribute ?

- a) Phone_number
- b) Name
- c) Date_of_birth
- d) All of the mentioned

9.The entity relationship set is represented in E-R diagram as

- a) Double diamonds
- b) Undivided rectangles
- c) Dashed lines
- d) Diamond

10.Consider a directed line(->) from the relationship set advisor to both entity sets instructor and student. This indicates _____ cardinality

- a) One to many
- b) One to one
- c) Many to many
- d) Many to one

Write Short answers

1. State the different stages of Database designing process.
2. What are the main types of data models?. List down examples.
3. What are the main elements of a ER model
4. State different types of entities and how they can be differentiated.
5. What are the different types of attributes and explain with examples.
6. What are the main keys identified in a DB environment. Explain how to determine a primary key among above mentioned keys.