1. What is the purpose of diagram rules for an ERD? **1 point**

- (●) To prevent structural errors in an ERD just as syntax rules prevent grammatical errors with computer language statements
- ( ) To ensure an ERD completely represents requirements
- ( ) To ensure an ERD consistently represents requirements
- ( ) To ensure appropriate levels of documentation for an ERD

2. Which completeness rule is not mandatory although typically satisfied. **1 point**

- ( ) Primary key rule
- (●) Naming rule for entity types, attributes, and relationships
- ( ) Cardinality rule indicating cardinality specification in both directions
- ( ) Entity participation rule indicating the each entity participates in at least one relationship

3. For weak entity types, the primary key rule is violated if **1 point**

- ( ) the weak entity type has 2 identifying relationships but not a local key.
- (●) the weak entity type has 1 identifying relationship but not a local key.
- ( ) the weak entity type has 2 identifying relationships and a local key.
- ( ) the weak entity type has 1 identifying relationship and a local key.

4. Which statement is FALSE about names in an ERD? **1 point**

- ( ) Entity type names must be unique.
- (●) Attribute names must be unique within each entity type.
- ( ) Primary key names must be unique.
- ( ) Attribute names must be unique across entity types.

5. The Check Diagram feature of the ER Assistant reports a redundant foreign key if **1 point**

- ( ) A child entity type has a duplicate attribute name.
- (●) A child entity type has an attribute name matching the name of the primary key of the parent entity type.
- ( ) A parent entity type has an attribute name matching an attribute of the child entity type.
- ( ) A parent entity type has an attribute name matching the relationship name.

6. Visual Paradigm Community Edition contains a check diagram feature that shows violations of diagram rules. **1 point**

- (●) True
- ( ) False

7. Which statement is different about the ERD notation in the ER Assistant and physical models in Visual Paradigm? **1 point**

- ( ) Relationships connect two entity types, not necessarily distinct.
- ( ) Relationships cannot connect relationships.
- ( ) Foreign keys are not used.
- (●) Entity types have primary keys.

8. Which consistency rule is violated by a weak entity type without an identifying relationship? **1 point**

- (●) Weak entity type rule
- ( ) Identifying relationship rule
- ( ) Identification dependency cardinality rule
- ( ) Primary keys rule

9. Which consistency rule is violated by an identifying relationship without a particpating weak entity type? **1 point**

- (●) Weak entity type rule

- Identifying relationship rule
- Identification dependency cardinality rule
- Primary keys rule

10. Which consistency rule is violated by an identifying relationship without a cardinalty of 1:1 (minimum and maximum cardinality of 1) for the weak entity type? **1 point**

- Weak entity type rule
- Identifying relationship rule
- Identification dependency cardinality rule
- Primary keys rule

Upgrade to submit