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| **Started on** | Wednesday, 26 September 2018, 9:46 PM |
| **State** | Finished |
| **Completed on** | Wednesday, 26 September 2018, 9:58 PM |
| **Time taken** | 12 mins 26 secs |
| **Marks** | 10.00/15.00 |
| **Grade** | **6.67** out of 10.00 (**67**%) |

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**Question 1**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which view of information deals with how the information is physically arranged, stored, and accessed?

Select one:

a. Physical View

b. Logical View

c. Information View

d. None of the Above

**Question 2**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

This graphic indicates:

Select one:

a. A student can own many cars and a car can be owned by many students

b. A student cannot own a car

c. A car can be owned by many students

d. That a student can own 0, 1 or many cars

**Question 3**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

This symbol represents:

Select one:

a. An entity

b. An attribute

c. A relation

d. A record

**Question 4**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

An entity is

Select one:

a. a real physical "thing" or a conceptual "thing" that is specific to a particular database management system

b. a "thing" which has either a real physical existence (e.g. a car or a student) or a conceptual existence (e.g. a course)

c. a real physical "thing" that is specific to a particular database management system

d. any physical "thing" that exists in the real world

**Question 5**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The Entity Relation Model models

Select one:

a. Relationships

b. Entities, Relationships and Processes

c. Entities

d. Entities and Relationships

**Question 6**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

An entity type is

Select one:

a. a specific type such as an integer, text, date, logical etc.

b. defined when the database is actually constructed

c. defined by the database designer

d. a coherent set of similar objects that we want to store data on (e.g. STUDENT, COURSE, CAR)

**Question 7**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

An instance is

Select one:

a. any particular entity

b. a particular occurance of an entity (e.g. Tom Osman is an instance of the entity STUDENT)

c. an attribute of an entity

d. a special type of relation

**Question 8**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

Which of the following statements best decribes the function of an entity relation model?

Select one:

a. An ER model is concerned primarily with a physical implementation of the data and secondly with the logical view

b. An ER model is concerned primarily with a logical view of the data and secondly with the physical implementation

c. An ER model provides a view of the logic of the data and not the physical implementation

d. An ER model is entirely concerned with modelling the physical implemetation

**Question 9**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

This symbol represents a

Select one:

a. one to many relation

b. a many to many relation

c. a one to one relation

d. a many to one relation

**Question 10**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

A publishing company produces academic books on various subjects. Books are written by authors who specialise in one or more particular subject. The company employs a number of editors who do not have particular specialisations but who take sole responsibilty for for editing one or more publications. A publication covers a single subject area but may be written by one or more author - the contribution of each author is recorded as a percentage for the purposes of calculating royalties.

The following ER diagram is intended to represent the above specification:

The specification is to be changed so that an author can develop a publication covering more than one subject area and that the schema must be able to store the percentage of the compents concerned with each of the subjects. Select an appropriate change to the ER diagram:

Select one:

a. publication-subject becomes many to many

b. author-subject becomes many to many

c. author-publication becomes many to many

d. more than one of the above

e. none of the above

**Question 11**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A publishing company produces academic books on various subjects. Books are written by authors who specialise in one or more particular subject. The company employs a number of editors who do not have particular specialisations but who take sole responsibilty for for editing one or more publications. A publication covers a single subject area but may be written by one or more author - the contribution of each author is recorded as a percentage for the purposes of calculating royalties.

The following ER diagram is intended to represent the above specification:

Indicate the relation which has an incorrect cardinality shown:

Select one:

a. specialises in

b. makes

c. is about

d. to

e. None of the Above

**Question 12**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

In relational algebra the UNION of two sets (set A and Set B). This corresponds to

Select one:

a. A - B

b. A AND B

c. A OR B

d. A + B

**Question 13**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

A database may have numerous physical views.

Select one:

True

False

**Question 14**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

It is impossible to represent a one-to-one relationship in a relational schema.

Select one:

True

False

**Question 15**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

Under a relational database system, if table

table

R has a foreign key constraint referencingS, then each tuple in R is necessarily related to some tuple in S via the foreign key.

Select one:

True

False

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