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Started on	Tuesday, 10 September 2024, 8:15 AM
State	Finished
Completed on	Tuesday, 10 September 2024, 8:45 AM
Time taken	29 mins 7 secs
Grade	84.00 out of 100.00

Question 1

Correct Mark 4.00 out of 4.00

The collection of information stored in a database at a particular moment is called as

Select one:

- ☒ a. instance of the database ✓
- ☐ b. domain of the database
- ☐ c. centralization of the database
- ☐ d. schema of the database

The correct answer is: instance of the database

Question 2

Correct Mark 4.00 out of 4.00

Select the CORRECT answer.

A “Valid Database State” _____ .

Select one:

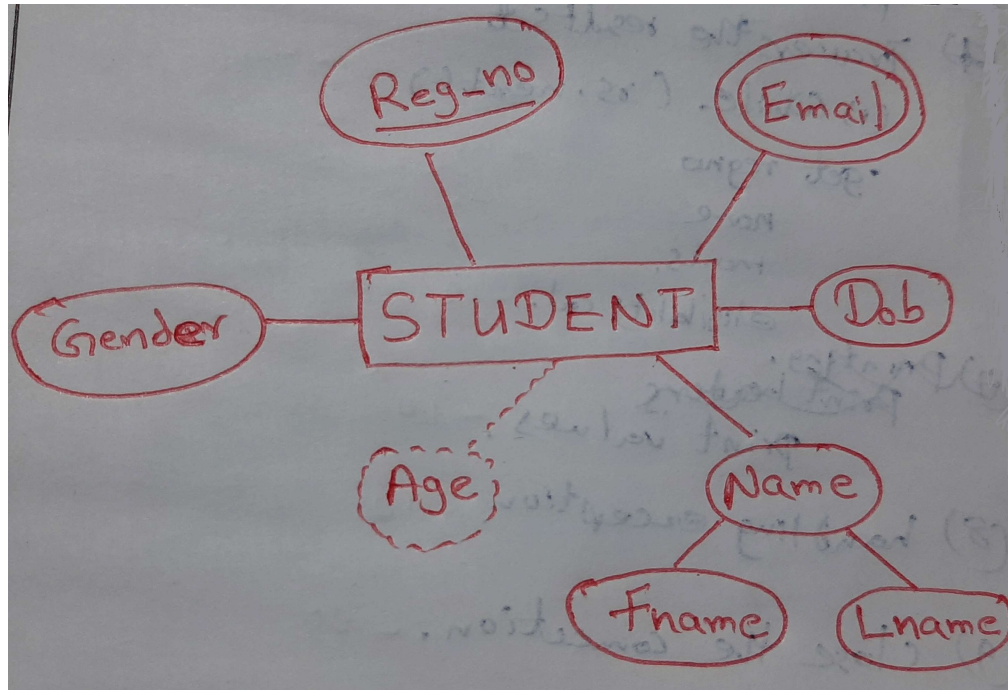
- ☐ a. Refers to the database when it is first populated or loaded
- ☐ b. Refers to the content of a database at a moment in time
- ☐ c. Refers to the structure of a database at a moment in time
- ☒ d. Refers to a state that satisfies the structure and constraints of the database ✓

The correct answer is: Refers to a state that satisfies the structure and constraints of the database

Question 3

Correct Mark 16.00 out of 16.00

Based on the given figure select the correct answer for each parts given.



Email	Multi valued attribute	✓
Reg_no	Key attribute	✓
STUDENT	Entity	✓
Name	Composite attribute	✓
Age	Derived attribute	✓

Your answer is correct.

The correct answer is: **Email** → Multi valued attribute, **Reg_no** → Key attribute, **STUDENT** → Entity, **Name** → Composite attribute, **Age** → Derived attribute

Question 4

Correct Mark 4.00 out of 4.00

What does "Data Analysis" phase perform in database development lifecycle?

Select one:

- ☐ a. Compares the implemented database against the design documents and requirements specification
- ☐ b. Provides a detailed description of how the database should be constructed with the selected DBMS
- ☐ c. Involves consultation with, and agreement among, stakeholders as to what they want from the database
- ☒ d. Starts by considering the data requirements and finishes by producing a Conceptual data model ✓

The correct answer is: Starts by considering the data requirements and finishes by producing a Conceptual data model

Question 5

Correct Mark 4.00 out of 4.00

In the database approach what is meant by "Self-describing nature of a database"?

Select one:

- ☒ a. Database system contains not only the database itself but also a complete definition or description of the database structure and constraints ✓
- ☐ b. The structure of data files is stored in the DBMS catalog separately from the access programs
- ☐ c. It's about allowing multiple users to access the database at the same time
- ☐ d. The implementation (or method) of the operation is specified separately and can be changed without affecting the interface

The correct answer is: Database system contains not only the database itself but also a complete definition or description of the database structure and constraints

Question 6

Correct Mark 4.00 out of 4.00

Data Definition Language (DDL) is used to

Select one:

- ☐ a. retrieve data and include constructs such as looping
- ☐ b. specify database retrieval, insertion, deletion, and modification of the data
- ☒ c. specify the conceptual schema of a database by the DBA and database designers ✓
- ☐ d. specify what data to retrieve than how to retrieve

The correct answer is: specify the conceptual schema of a database by the DBA and database designers

Question 7

Incorrect Mark 0.00 out of 4.00

Select the correct answer to fill the blanks.

The database state is called as of the schema and schema is called as the of a database.

Select one:

- ☐ a. state, extension
- ☐ b. extension, intension
- ☒ c. intension, extension ✗
- ☐ d. state, intension

The correct answer is: extension, intension

Question 8

Correct Mark 4.00 out of 4.00

What is meant by "Program data independence" in database approach?

Select one:

- ☒ a. The structure of data files is stored in the DBMS catalog separately from the access programs ✓
- ☐ b. The structure of data files is stored in the DBMS catalog combine with the access programs
- ☐ c. The conceptual representation of data which does not include the data storage mechanism and the implementation
- ☐ d. Allowing multiple users to access the database at the same time

The correct answer is: The structure of data files is stored in the DBMS catalog separately from the access programs

Question 9

Incorrect Mark 0.00 out of 4.00

In "UNDERGRADUATE is a STUDENT" relationship

Select one:

- ☒ a. Both "STUDENT" and "UNDERGRADUATE" are sub classes ✗
- ☐ b. "UNDERGRADUATE" is the super class and "STUDENT" is the sub class
- ☐ c. "STUDENT" is the super class and "UNDERGRADUATE" is the sub class
- ☐ d. Both "STUDENT" and "UNDERGRADUATE" are super classes

The correct answer is: "STUDENT" is the super class and "UNDERGRADUATE" is the sub class

Question 10

Correct Mark 4.00 out of 4.00

What is not a known data model in the context of DBMS?

Select one:

- ☐ a. Hierarchical Data Model
- ☐ b. Object Oriented Data Model
- ☒ c. Relative Data Model ✓
- ☐ d. Network Data Model

The correct answer is: Relative Data Model

Question 11

Correct Mark 4.00 out of 4.00

The Tree Schema architecture is not including

Select one:

- ☒ a. Prototype Schema ✓
- ☐ b. Internal Schema
- ☐ c. Conceptual Schema
- ☐ d. External Schema

The correct answer is: Prototype Schema

Question 12

Correct Mark 4.00 out of 4.00

What is not a "ACID" property of a database?

Select one:

- ☐ a. Durability
- ☐ b. Isolation
- ☒ c. Concatenation ✓
- ☐ d. Atomicity

The correct answer is: Concatenation

Question 13

Correct Mark 4.00 out of 4.00

Simple attributes are also called as _____ attributes.

Select one:

- ☐ a. Derived
- ☐ b. Multi valued
- ☒ c. Atomic ✓
- ☐ d. Composite

The correct answer is: Atomic

Question 14

Incorrect Mark 0.00 out of 4.00

In the database context “Physical Data Independence” means

Select one:

- ☐ a. The capacity to change the internal schema without having to change the conceptual schema
- ☐ b. The capacity to change the conceptual schema without having to change the application programs.
- ☒ c. The capacity to change the conceptual schema without having to change the external schema ✖
- ☐ d. The capacity to change the internal schema without having to change the external schema

The correct answer is: The capacity to change the internal schema without having to change the conceptual schema

Question 15

Correct Mark 4.00 out of 4.00

A relational database consists of a collection of

Select one:

- ☐ a. Integrities
- ☐ b. Keys
- ☒ c. Tables (Relations) ✔
- ☐ d. Fields (Columns)

The correct answer is: Tables (Relations)

Question 16

Correct Mark 4.00 out of 4.00

Which of the following is not a feature of a DBMS?

Select one:

- ☐ a. Reduced Duplication and Redundancy of Data
- ☒ b. Supports Only Single User Operations ✔
- ☐ c. Supports ACID properties
- ☐ d. Increased Security of Data

The correct answer is: Supports Only Single User Operations

Question 17

Correct Mark 4.00 out of 4.00

Select the correct answer to fill the blank

A is used to define overall design of the database

Select one:

- ☐ a. Application Program
- ☒ b. Schema ✓
- ☐ c. Source Code
- ☐ d. State

The correct answer is: Schema

Question 18

Correct Mark 4.00 out of 4.00

Select the correct statement about the definition of a "Database"

Select one:

- ☐ a. Database is a collection of programs that enables users perform some operations
- ☐ b. Database is a non-reflective version of the of the selected Mini world
- ☐ c. Database is a random assortment of data without some inherent meaning
- ☒ d. Database is a logically coherent collection of data with some inherent meaning ✓

The correct answer is: Database is a logically coherent collection of data with some inherent meaning

Question 19

Correct Mark 4.00 out of 4.00

From the "Integrity" property of a database it

Select one:

- ☒ a. Ensures that data is both consistent and correct ✓
- ☐ b. Ensures that data can be accessed and manipulated in ways which match user requirements
- ☐ c. Ensures that a database can evolve to satisfy changing user requirements
- ☐ d. Ensures that users do not have unduly long response times when accessing data

The correct answer is: Ensures that data is both consistent and correct

Question 20

Correct Mark 4.00 out of 4.00

Within the context of DBMS, data about data is termed as

Select one:

- ☒ a. Metadata ✓
- ☐ b. Directory
- ☐ c. Schema
- ☐ d. Diagram

The correct answer is: Metadata

Question 21

Correct Mark 4.00 out of 4.00

When a composite attribute is selected as the primary key of the relation

Select one:

- ☐ a. set of multivalued attributes that form composite attribute will together form primary key
- ☐ b. set of logical attributes that form composite attribute will together form the primary key
- ☐ c. set of derived attributes that form composite attribute will together form the primary key
- ☒ d. set of atomic attributes that form composite attribute will together form the primary key ✓

The correct answer is: set of atomic attributes that form composite attribute will together form the primary key

Question 22

Incorrect Mark 0.00 out of 4.00

The degree of a relationship type can be identified as

Select one:

- ☐ a. the number of relationship attributes the relationship has
- ☒ b. the number of participating entity sets ✗
- ☐ c. the number of attributes the relationship has
- ☐ d. the number of participating entity types

The correct answer is: the number of participating entity types

◀ Lesson 04 - Exercise

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