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MCQ 1:

_____ are the structures defined for placing data in the attributes while designing the physical design of a database.

Options:

- a) Data types
- b) Variables
- c) Attributes
- d) Objects

Correct Option: c) Attributes

MCQ 2:

If $A \rightarrow B$ and $CB \rightarrow D$, then $AC \rightarrow D$. The above rule follows _____ inference rule.

Options:

- a) Decomposition
- b) Additivity
- c) Augmentation
- d) Pseudo transitivity

Correct Option: d) Pseudo transitivity

MCQ 3:

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Which of the following is NOT related to partitioning and placement in a database?

Options:

- a) Speed up the rate of useful work
- b) Balance workload
- c) Reduce workload
- d) Speed up data transmission

Correct Option: d) Speed up data transmission

MCQ 4:

Atomicity is a feature of _____.

Options:

- a) BCNF
- b) 1NF
- c) 2NF
- d) 3NF

Correct Option: a) BCNF

MCQ 5:

Which of the following is a correct syntax of selecting all the columns from a table called PERSONS?

Options:

- a) SELECT * FROM Persons
- b) SELECT FROM * Persons
- c) SELECT WHERE * Persons
- d) SELECT * WHERE Persons

Correct Option: a) SELECT * FROM Persons

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MCQ 6:

Denormalization is required to enhance _____.

Options:

- a) Performance
- b) Sharing of data
- c) Data transmission
- d) Data communication

Correct Option: a) Performance

MCQ 7:

Which of the following is NOT related to data manipulation language?

Options:

- a) Insertion of information
- b) Retrieval of information
- c) Modification to the information
- d) Control access to the information

Correct Option: d) Control access to the information

MCQ 8:

The database design prevents some data from being stored due to _____.

Options:

- a) Redundancy
- b) Insertion anomalies
- c) Deletion anomalies

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d) Update anomalies

Correct Option: b) Insertion anomalies

MCQ 9:

In _____ the domains of attributes of a relation are atomic, that is they consist of single units that cannot be broken down further.

Options:

- a) Third normal form
- b) First normal form
- c) Second normal form
- d) Augmentation

Correct Option: b) First normal form

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MCQ 10:

_____ is the state of a database where a "course" cannot be inserted into the table because this course has not been registered to any "student".

Options:

- a) Updation anomaly
- b) Redundancy
- c) Deletion anomaly
- d) Insertion anomaly

Correct Option: d) Insertion anomaly

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