Chapter9:

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1. "Should the existing system be replaced?" is a question that is asked during the

\_\_\_\_\_\_\_\_ stage of the SDLC.

a. planning

b. maintenance

c. analysis

d. implementation

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2. Coding, testing, and debugging are part of the \_\_\_\_\_\_\_\_ phase of the SDLC.

a. implementation

b. planning

c. analysis

d. detailed systems design

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3. "What are the requirements of the current system's end users?" is a question asked

during the \_\_\_\_\_\_\_\_ phase of the SDLC.

a. analysis

b. planning

c. maintenance

d. implementation

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4. The logical systems design is created during the \_\_\_\_\_\_\_\_ phase of the SDLC.

a. implementation

b. maintenance

c. analysis

d. planning

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5. The last phase in the Database Life Cycle is \_\_\_\_\_\_\_\_.

a. implementation and loading

b. testing and evaluation

c. maintenance and evolution

d. operation

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6. Installing the DBMS, creating the database, and loading or converting the data are

part of the \_\_\_\_\_\_\_\_ phase of the DBLC.

a. testing and evaluation

b. database initial study

c. database design

d. implementation and loading

7. Testing, fine-tuning, and evaluating the database and its applications are part of the

\_\_\_\_\_\_\_\_ phase of the DBLC.

a. database initial study

b. implementation and loading

c. testing and evaluation

d. database design

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8. Which of the conceptual design steps determines end-user views, outputs, and

transaction-processing requirements?

a. Database analysis and requirements

b. Distributed database design

c. Data model verification

d. Entity relationship modeling and normalization

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9. Which of the conceptual design steps defines entities, attributes, and relationships?

a. Distributed database design

b. Entity relationship modeling and normalization

c. Data model verification

d. Database analysis and requirements

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10. The first step in developing the conceptual model using ER diagrams is to

\_\_\_\_\_\_\_\_.

a. identify, analyze, and refine the business rules

b. complete the initial ER diagram

c. define the attributes, primary keys, and foreign keys for each of the entities

d. normalize the entities

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11. During the Entity-Relationship modeling process, the designer must \_\_\_\_\_\_\_\_.

a. avoid all ternary relationships

b. delete the ER diagram

c. make decisions about the placement of primary keys in 1:1 relationships

d. make decisions about adding derived attributes to satisfy processing requirements

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12. The first step in the ER model verification process is to \_\_\_\_\_\_\_\_.

a. identify each module's internal transaction requirements

b. identify each module and its components

c. identify the ER model's central entity

d. verify all processes against the ER model

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13. The \_\_\_\_\_\_\_\_ design is used to translate the conceptual design into the internal

model for a selected database management system.

a. logical

b. physical

c. network

d. time

14. \_\_\_\_\_\_\_\_ design is the process of selecting the data storage and data access

characteristics of the database.

a. Logical

b. Physical

c. Time

d. Network

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15. Once the data have been loaded into the database, the \_\_\_\_\_\_\_\_ tests and fine-

tunes the database to ensure that it performs as expected.

a. database administrator

b. systems administrator

c. programmer

d. manager

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16. The assignment of \_\_\_\_\_\_\_\_ may restrict operations on predetermined objects such

as databases, tables, views, queries and reports.

a. password security

b. audit trails

c. diskless workstations

d. access rights

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17. \_\_\_\_\_\_\_\_ are usually provided by the DBMS to check for access violations.

a. Audit trails

b. Diskless workstations

c. Access rights

d. Security devices

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18. Once the database has passed the evaluation stage, it is considered to be

\_\_\_\_\_\_\_\_.

a. finished

b. complete

c. secure

d. operational

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19. Which activity in the SDLC is parallel to implementation and loading in the DBLC?

a. analysis

b. detailed design

c. coding

d. testing and evaluation

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20. \_\_\_\_\_\_\_\_ design is productive when the data component is composed of a relatively

small number of objects and procedures.

a. Denormalized

b. Decentralized

c. Centralized

d. Normalized