1 The main database transaction properties are atomicity, consistency, durability, isolation, and

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

a. serializability

b. capability

c. concurrency

d. transitivity

--------------------------------------------------------------------------------

2 In database terms, a(n) \_\_\_\_\_\_\_\_ is any action that reads from and/or writes to a database.

a. lock

b. session

c. transaction

d. interaction

--------------------------------------------------------------------------------

3 A \_\_\_\_\_\_\_\_ database state is one in which all data integrity constraints are satisfied.

a. fixed

b. secure

c. complete

d. consistent

--------------------------------------------------------------------------------

4 If any of the SQL statements in a transaction fail, the entire transaction is \_\_\_\_\_\_\_\_ to the original

database state that existed before the transaction started.

a. abandoned

b. completed

c. rolled back

d. diverted

--------------------------------------------------------------------------------

5 All transactions are controlled and executed by the DBMS (subject to some limitations) to guarantee

database \_\_\_\_\_\_\_\_.

a. uniqueness

b. integrity

c. consistency

d. design

--------------------------------------------------------------------------------

6 What is a database request?

a. A series of SQL statements that implement all of the business rules in an application.

b. One or more SQL statements that implement one business rule.

c. A single SQL statement in an application program or transaction.

d. A transaction.

--------------------------------------------------------------------------------

7 Each database request generates several \_\_\_\_\_\_\_\_.

a. input/output (I/O) operations

b. transactions

c. business processes

d. SQL statements

--------------------------------------------------------------------------------

8 The \_\_\_\_\_\_\_\_ statement is used to end a successful transaction.

a. COMMIT

b. DONE

c. END

d. QUIT

--------------------------------------------------------------------------------

9 Which DBMS does not support transaction management by default?

a. MS Access

b. Oracle

c. DB2

d. SQL Server

(Also, MySQL default tables, MyISAM, does not support transactions.)

--------------------------------------------------------------------------------

10 \_\_\_\_ requires that all operations of a transaction be completed; if not, the transaction is aborted.

a. Atomicity

b. Durability

c. Consistency

d. Isolation

--------------------------------------------------------------------------------

11 \_\_\_\_ means that the data used during the execution of a transaction cannot be used by a second

transaction until the first one is completed.

a. Isolation

b. Atomicity

c. Durability

d. Consistency

--------------------------------------------------------------------------------

12 \_\_\_\_\_\_\_\_ ensures that once transaction changes are done, they cannot be undone or lost, even in the

event of a system failure.

a. Consistency

b. Isolation

c. Atomicity

d. Durability

--------------------------------------------------------------------------------

13 Which property is especially important in a multiuser database?

a. Consistency

b. Atomicity

c. Serializability

d. Durability

--------------------------------------------------------------------------------

14 If several concurrent transactions are executed over the same data set and the second transaction

updates the database before the first transaction is finished, the \_\_\_\_\_\_\_\_ property is violated and the

database is no longer consistent.

a. atomicity

b. consistency

c. durability

d. isolation

--------------------------------------------------------------------------------

15 When a(n) \_\_\_\_\_\_\_\_ statement is reached, all changes are permanently recorded within the database.

a. DONE

b. EXIT

c. COMMIT

d. ROLLBACK

--------------------------------------------------------------------------------

16 When the end of a program is reached, all changes are permanently recorded within the database; this

action is equivalent to issuing the \_\_\_\_\_\_\_\_ statement.

a. EXIT

b. BYE

c. COMMIT

d. ROLLBACK

--------------------------------------------------------------------------------

17 When a program is abnormally terminated, the equivalent of a(n) \_\_\_\_\_\_\_\_ command occurs.

a. COMMIT

b. ROLLBACK

c. QUIT

d. EXIT

--------------------------------------------------------------------------------

18 According to the ANSI SQL standard, when does a transaction begin?

a. with the BEGIN TRANSACTION command

b. when the first SQL statement is encountered

c. with use of the START command

d. with the BEGIN command

--------------------------------------------------------------------------------

19 A DBMS uses a transaction \_\_\_\_\_\_\_\_ to keep track of all transactions that update the database.

a. block

b. log

c. statement

d. table

--------------------------------------------------------------------------------

20 Part of the data stored in the transaction log is a(n) \_\_\_\_\_\_\_\_ to the previous and next transaction log

entries for the same transaction.

a. rowid

b. pointer

c. id

d. link