

DBMS 5th Unit MCQ's

1) Commit and rollback are related to

- A. data integrity
- B. data consistency
- C. data sharing
- D. data security

2) The transaction wants to edit the data item is called as

- A. Exclusive Mode
- B. Shared Mode
- C. Inclusive Mode
- D. Unshared Mode

3) For committing a transaction, the DBMS might discard all the records.

- A. after image
- B. before image
- C. log
- D. redo log

4) A sophisticated locking mechanism known as 2-phase locking which includes Growing phase and .

- A. Shrinking Phase
- B. Release phase
- C. Commit phase
- D. Acquire Phase

5) A Transaction ends

- A. only when it is Committed.
- B. only when it is Rolled-back
- C. when it is Committed or Rolled-back
- D. only when it is initialized

6) In, each transactions there is a first phase during which new lock are acquired.

- A. Shrinking Phase
- B. Release phase
- C. Commit phase
- D. Growing Phase

7) A transaction processing system is also called as

- A. processing monitor
- B. transaction monitor
- C. TP monitor
- D. monitor

8) The transactions are always if it always locks a data item in shared mode before reading it.

- A. well formed
- B. well distributed
- C. well locked
- D. well shared

9) servers which is widely used in relational database systems.

- A. Data servers
- B. Transaction servers
- C. Query servers
- D. Client servers

10) If a distributed transactions are well-formed and 2-phasedlocked, then is the correct locking mechanism in distributed transaction as well as in centralized databases.

- A. two phase locking
- B. three phase locking
- C. transaction locking
- D. well-formed locking

11) property will check whether all the operation of a transaction completed or none.

- A. Atomicity
- B. Consistency
- C. Isolation
- D. Durability

12) The total ordering of operations across groups ensuresof transactions.

- A. serializability
- B. synchronizability
- C. atomicity
- D. durability

13) In which state, the transaction will wait for the final statement has been executed?

- A. Active
- B. Failed
- C. Aborted
- D. partially committed

14) The ORDER concurrency control technique is based on the property.

- A. ordering mechanism

- B. inherent ordering
- C. total ordering
- D. partial ordering

15) Transactions per rollback segment is derived from

- A. Db_Block_Buffers
- B. Processes
- C. shared_Pool_size
- D. buffers

16) Theis responsible for ensuring correct execution in the presence of failures.

- A. Database Manager
- B. Transaction Manager
- C. Recovery Manager
- D. Executive Manager

17) A distributed transaction can be if queries are issued at one or more nodes.

- A. fully read-only
- B. partially read-only
- C. fully read-write
- D. partially read-write

18) The distributed transaction can be completely read-only and the transaction is started with a READ ONLY statement.

- A. DISTRIBUTED_TRANSACTIONS
- B. TRANSACTION
- C. SET TRANSACTION
- D. READ TRANSACTION

19) The initialization parameter controls the number of possible distributed transactions in which a given instance can concurrently participate, both as a client and a server.

- A. DISTRIBUTED_TRANSACTION
- B. TRANSACTION
- C. SET TRANSACTION
- D. CONTROL TRANSACTION

20) A database administrator can manually force the COMMIT or ROLLBACK of a local distributed transaction.

- A. in-force
- B. in-doubt
- C. in-local
- D. in-manual

21) Computer system of a parallel computer is capable of

- A. Decentralized computing
- B. Parallel computing
- C. Centralized computing
- D. Decentralized computing

22) Writing parallel programs is referred to as

- A. Parallel computation
- B. Parallel processes
- C. Parallel development
- D. Parallel programming

23) Simplifies application's of three-tier architecture is _____.

- A. Maintenance
- B. Initiation
- C. Implementation
- D. Deployment

24) Dynamic networks of networks, is a dynamic connection that grows is called

- A. Multithreading
- B. Cyber cycle
- C. Internet of things
- D. Cyber-physical system

25) In which application system Distributed systems can run well?

- A. HPC
- D. HTC
- C. HRC
- D. Both A and B

26) In which systems desire HPC and HTC.

- A. Adaptivity
- B. Transparency
- C. Dependency
- D. Secretive

27) No special machines manage the network of architecture in which resources are known as

- A. Peer-to-Peer
- B. Space based
- C. Tightly coupled
- D. Loosely coupled

28) Significant characteristics of Distributed systems have of

- A. 5 types
- B. 2 types
- C. 3 types
- D. 4 types

29) Built of Peer machines are over

- A. Many Server machines
- B. 1 Server machine
- C. 1 Client machine
- D. Many Client machines

30) Data access and storage are elements of Job throughput, of _____.

- A. Flexibility
- B. Adaptation

- C. Efficiency
- D. Dependability

31) In Distributed database, _____ are the transactions for which a <ready T> log is found in the log file, but neither a <commit T> log nor an <abort T> log is found.

- a) In-doubt transactions
- b) Serialized transactions
- c) Cascadeless transactions
- d) Distributed transactions

32) A semijoin is which of the following?

- A) Only the joining attributes are sent from one site to another and then all of the rows are returned.
- B) All of the attributes are sent from one site to another and then only the required rows are returned.
- C) Only the joining attributes are sent from one site to another and then only the required rows are returned.
- D) All of the attributes are sent from one site to another and then only the required rows are returned.

33) Which of the following is a disadvantage of replication?

- A) Reduced network traffic
- B) If the database fails at one site, a copy can be located at another site.
- C) Each site must have the same storage capacity.
- D) Each transaction may proceed without coordination across the network.

34) A distributed database can use which of the following strategies?

- A) Totally centralized at one location and accessed by many sites
- B) Partially or totally replicated across sites
- C) Partitioned into segments at different sites
- D) All of the above

35) Which of the following is not one of the stages in the evolution of distributed DBMS?

- A) Unit of work

- B) Remote unit of work
- C) Distributed unit of Work
- D) Distributed request

36) A distributed transaction can be if queries are issued at one or more nodes.

- A) fully read-only
- B) partially read-only
- C) fully read-write
- D) partially read-write

37) Depending on the situation each node in the Distributed Database system can act as, _____
.

- A) A client
- B) A server
- C) Both A & B
- D) None of the above

38) Which transaction contains statements that access more than one node?

- A) A Remote Transaction
- B) A Distributed transaction
- C) Both A & B
- D) None of the above

39) What is the mechanism which guarantees that all database servers participating in a distributed transaction either all commit or all roll back the statements in the transaction?

- A) Commit
- B) Commit transaction
- C) Two-phase commit
- D) Three-phase commit

40) Stored procedures have which of the following advantages?

- A) It takes a longer time to write them as compared to writing Visual Basic.

- B) Network traffic increases
- C) Data integrity improves as multiple applications access the same stored procedure.
- D) Result in thicker client and thinner database server.

41) If the transaction is rolled back, all the database changes made inside the transaction are

- A. made permanent
- B. made temporary
- C. copied to the log
- D. Undone

42) Which of the following is not a property of transactions?

- A. Atomicity
- B. Concurrency
- C. Isolation
- D. Durability

43) A ensures that transactions are performed as expected.

- A. transaction processing monitor
- B. transaction procedure monitor
- C. isolation monitor
- D. transaction log

44) A transaction that completes its execution successfully is said to be

- A. committed
- B. rolled back
- C. partially committed
- D. Aborted

45) means that a transaction must execute exactly once completely or not at all.

- A. durability
- B. consistency
- C. atomicity
- D. Isolation

46) Assume transaction A holds a shared lock R. If transaction B also requests for a shared lock on R.

- A. It will result in a deadlock situation
- B. It will immediately be rejected
- C. It will immediately be granted

D. It will be granted as soon as it is released by A

47) means that when it ends, a transaction must leave the database in a consistent state.

- A. Data isolation
- B. Data duration
- C. Data consistency
- D. Data non-reputability

48) The number of transactions executed in a given amount of time is called

- A. utilization
- B. execution rate
- C. throughput
- D. atomicity

49) Isolation means

- A. transaction must not interfere with each other
- B. transaction must interfere with each other
- C. transaction must be in a consistent state
- D. transaction must be executed immediately

50) Which of the following ensures the atomicity of the transaction?

- A. Transaction management component of DBMS
- B. Application Programmer
- C. The concurrency control component of DBMS
- D. Recovery management component of DBMS

51) means that a transaction must make its changes permanent to the database ends.

- A. isolation
- B. locking
- C. durability
- D. consistency

52) Throughput means

- A. number of transactions that are committed in one hour
- B. number of operations in a transaction
- C. number of transaction that can be aborted in a given amount of time
- D. number of transaction that can be executed in a given amount of time

53) deals with individual transactions.

- A. isolate transactions
- B. transaction recovery
- C. system recovery
- D. media recovery

54) The part of a database management system which ensures that the data remains in a consistent state is

- A. authorization and integrity manager
- B. buffer manager
- C. transaction manager
- D. file manager

55) protocol is used to perform multiple transactions that execute on a different database.

- A. commit
- B. two-phase lock
- C. two-phase commit
- D. locking

56) A transaction can do read and write operation on a data item when it acquires

- A. read mode
- B. exclusive mode
- C. shared mode
- D. write mode

57) In one transaction overwrites the changes of another transaction.

- A. uncommitted read problem
- B. lost update problem
- C. update lost problem
- D. dirty read problem

58) Isolation of the transactions is ensured by

- A. Transaction management
- B. Application programmer
- C. Concurrency control
- D. Recovery management

59) In a dirty read problem

- A. one transaction reads an uncommitted value of another transaction
- B. one transaction reads the committed value for another transaction

- C. one transaction reads another transaction
- D. one transaction commits another transaction.

60) A transaction can do only read operation and not write operation on a data item when it acquires lock.

- A. read mode
- B. exclusive mode
- C. shared mode
- D. write mode

61) In the, one transaction inserts a row in the table while the other transaction is halfway through its browsing of the table.

- A. transaction read a problem
- B. one way read a problem
- C. serial read problem
- D. phantom read problem

62) Transaction processing is associated with everything below except.

- A. producing detail, summary, or exception reports
- B. recording a business activity
- C. confirming an action or triggering a response
- D. maintaining data

63) helps solve the concurrency problem.

- A. locking
- B. transaction monitor
- C. transaction serializability
- D. two-phase commit

64) If a transaction acquires a shared lock, then it can perform operation.

- A. read
- B. write
- C. read and write
- D. update

65) If a transaction obtains a shared lock on a row, it means that the transaction wants to that row.

- A. write
- B. insert
- C. execute
- D. read

66) The node where the distributed transaction originates is called the

- A. local coordinator
- B. starting coordinator
- C. global coordinator
- D. originating node

67) If a transaction obtains an exclusive lock on a row, it means that the transaction wants to that row.

- A. select
- B. update
- C. view
- D. read

68) If a transaction acquires an exclusive lock, then it can perform operation.

- A. read
- B. write
- C. read and write
- D. update

69) is a specific concurrency problem wherein two transactions depend on each other for something.

- A. phantom read problem
- B. transaction read a problem
- C. deadlock
- D. locking

70) If a database server is referenced in a distributed transaction, the value of its commit point strength determines which role it plays in the

- A. two-phase commit
- B. two-phase locking
- C. transaction locking
- D. checkpoints

71) Transaction ensures that the transaction is being executed successfully.

- A. concurrency
- B. consistency
- C. serializability
- D. non-serializability

72) The situation in which a transaction holds a data item and waits for the release of data item held by some other transaction, which in turn waits for another transaction, is called

- A. serializable schedule
- B. process waiting
- C. concurrency
- D. deadlock

73) protocol guarantees that a set of transactions becomes serializable.

- A. two-phase locking
- B. two-phase commit
- C. transaction locking
- D. checkpoints

74) The global coordinator forgets about the transaction phase is called

- A. Prepare phase
- B. Commit phase
- C. Forget phase
- D. Global phase

75) In two-phase commit, coordinates the synchronization of the commit or rollback operations.

- A. database manager
- B. central coordinator
- C. participants
- D. concurrency control manager

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76) In two-phase locking protocol, a transaction obtains locks inphase.

- A. shrinking phase
- B. growing phase
- C. running phase
- D. initial phase

77) A transaction processing system is also called as

- A. processing monitor
- B. transaction monitor
- C. TP monitor
- D. monitor

78) After the nodes are prepared, the distributed transaction is said to be

- A. in-doubt

- B. in-prepared
- C. prepared transaction
- D. in-node

79) In, we have many mini transactions within the main transaction.

- A. transaction control
- B. chained transaction
- C. nested transaction
- D. calling transaction

80) In a two-phase locking protocol, a transaction release locks in phase.

- A. shrinking phase
- B. growing phase
- C. running phase
- D. initial phase

81) A mechanism which ensures that simultaneous execution of more than one transaction does not lead to any database inconsistencies is called mechanism.

- A. transaction control
- B. transaction management
- C. concurrency parallelism
- D. concurrency control

82) The transaction wants only to read the data item of the mode is called as

- A. Exclusive Mode
- B. Shared Mode
- C. Inclusive Mode
- D. Unshared Mode

83) Any execution of a set of transactions is called as its

- A. non-serial schedule
- B. serial schedule
- C. schedule
- D. interleaved schedule

84) is a program or set of program that interacts with the database at some point in its execution.

- A. A database system
- B. A database application

- C. Both
- D. none

85) component of a database is responsible for ensuring atomicity and durability.

- A. recovery management
- B. concurrency control
- C. storage management
- D. query evaluation engine

86) The activity of ensuring atomicity in the presence of Transaction aborts is called

- A. transaction control
- B. transaction management
- C. transaction recovery
- D. concurrency control

87) A is a set of rules that state when a transaction may lock or unlock each of the data items in the database

- A. concurrency control
- B. transaction control
- C. validation control
- D. locking protocol

88) is a collection of programs performing all necessary action associated with a database.

- A. Database associated
- B. Database administrator
- C. Database application
- D. Database management system

89) Which protocol permits the release of exclusive locks only at the end of the transaction?

- A. Graph-based protocol
- B. The strict two-phase locking protocol
- C. Two-phase locking protocol
- D. Rigorous Two-phase locking protocol

90) The activity of providing Durability of the transaction is called

- A. database control
- B. transaction management
- C. transaction recovery
- D. database recovery

91) Which protocol allows a transaction to lock a new data item only if that transaction has not yet unlocked data item?

- A. Graph-based protocol.
- B. The strict two-phase locking protocol
- C. Two-phase locking protocol
- D. Timestamp ordering scheme

92) is a collection of application programs that interact with the database along with DBMS.

- A. A database system
- B. A database application
- C. Database administration
- D. Data system

93) ensures that once the transaction completes successfully, the results of the operations become permanent.

- A. serializability
- B. synchronizability
- C. atomicity
- D. durability

94) A contains information for undoing or redoing all the actions performed by the transactions.

- A. save point
- B. log
- C. node
- D. commit_point

95) A is a unit of program execution that accesses and possibly updates various data items.

- A. DBMS
- B. monitor
- C. transaction
- D. transistor

96) A transaction is an action used to perform some manipulation on data stored in the

- A. Memory
- B. Record
- C. Database
- D. All of these

97) A transaction is terminated if it has

- A. aborted
- B. committed
- C. running state
- D. aborted or committed

98) The two possible communication errors are, Lost messages and

- A. Network Partitions
- B. Lost acknowledgment
- C. Timeout
- D. log error

99) The only way to undo the effects of a committed transaction is to execute a

- A. committed transaction
- B. compensating transaction
- C. supplementary transaction
- D. update query

100) In, one or more users/programs attempt to access the same data at the same time.

- A. concurrency
- B. transaction control
- C. locking
- D. two-phase locking

ANSWERS:

- 1) B. data consistency
- 2) A. Exclusive Mode
- 3) B. before image
- 4) A. Shrinking Phase
- 5) C. when it is Committed or Rolled-back
- 6) D. Growing Phase
- 7) C. TP monitor
- 8) A. well formed
- 9) B. Transaction servers
- 10) A. two phase locking

- 11) A. Atomicity
- 12) A. serializability
- 13) D. partially committed
- 14) C. total ordering
- 15) B. Processes
- 16) A. Database Manager
- 17) B. partially read-only
- 18) C. SET TRANSACTION
- 19) A. DISTRIBUTED_TRANSACTIONS
- 20) B. in-doubt
- 21) A. Decentralized computing
- 22) D. Parallel programming
- 23) D. Deployment
- 24) C. Internet of things
- 25) D. Both A and B
- 26) B. Transparency
- 27) A. Peer-to-Peer
- 28) C. 3 types
- 29) D. Many Client machines
- 30) C. Efficiency
- 31) A. In-doubt transactions
- 32) C- Only the joining attributes are sent from one site to another and then only the required rows are returned.
- 33) C- Each site must have the same storage capacity.
- 34) D- All of the above
- 35) A- Unit of work
- 36) B- partially read-only
- 37) C- Both A & B
- 38) B- A Distributed transaction
- 39) C- Two-phase commit
- 40) C- Data integrity improves as multiple applications access the same stored procedure.
- 41) D. undone
- 42) B. Concurrency
- 43) A. transaction processing monitor

- 44) A. committed
- 45) C. atomicity
- 46) C. It will immediately be granted
- 47) C. Data consistency
- 48) c. throughput
- 49) A. transaction must not interfere with each other
- 50) A. Transaction management component of DBMS
- 51) C. durability
- 52) D. number of transaction that can be executed in a given amount of time
- 53) B. transaction recovery
- 54) C. transaction manager
- 55) C. two-phase commit
- 56) B. exclusive mode
- 57) B. lost update problem
- 58) C. Concurrency control
- 59) A. one transaction reads an uncommitted value of another transaction
- 60) C. shared mode

- 61) D. phantom read problem
- 62) C. confirming an action or triggering a response
- 63) A. locking
- 64) A. read
- 65) D. read
- 66) C. global coordinator
- 67) B. update
- 68) C. read and write
- 69) C. deadlock
- 70) A. two-phase commit
- 71) C. serializability
- 72) D. deadlock
- 73) A. two-phase locking
- 74) C. Forget phase
- 75) B. central coordinator
- 76) B. growing phase
- 77) C. TP monitor
- 78) A. in-doubt
- 79) B. chained transaction
- 80) A. shrinking phase

- 81) D. concurrency control
- 82) B. Shared Mode
- 83) C. schedule
- 84) B. A database application
- 85) A. recovery management
- 86) C. transaction recovery
- 87) D. locking protocol
- 88) D. Database management system
- 89) B. Strict two-phase locking protocol
- 90) D. database recovery
- 91) C. Two-phase locking protocol
- 92) A. A database system
- 93) D. durability

- 94) B. log
- 95) C. transaction
- 96) C. Database
- 97) C. running state
- 98) A. Network Partitions
- 99) B. compensating transaction
- 100) A. concurrency