1) Which of the following is the full form of RDBMS?
a) Relational Data Management System
b) Relational Database Management System
c) Relative Database Management System
d) Regional Data Management System

2) What is an RDBMS?
a) Database that stores data elements that are not linked
b) Database that accesses data elements that are not linked
c) Database that stores and allows access to data elements that are linked
d) None of the mentioned

3) Does RDBMS have ACID properties?
a) Follows ACID properties
b) Doesn't follow ACID properties
c) Depends on the data stored in the database
d) Can't say

4) What is a relation in RDBMS?
a) Key
b) Table
c) Row
d) Data Types

5) Which of the following systems use RDMS?
a) Oracle
b) Microsoft SQLServer
c) IBM
d) All of the mentioned

6) Dynamic hashing allows us to?
a) Accommodate the growth of the database
b) Accommodate the shrinkage of the database
c) Allows modification of hash function
d) All of the mentioned

7) Which of the following constraints RDBS doesn't check before creating the tables?
a) Not null
b) Primary keys
c) Data Structure
d) Data integrity

8) Which of the following is the correct option for the given query?
SELECT DISTINCT name
FROM RDBMS
WHERE ID IS NOT NULL;
a) The query gives all the possible RDBMS names where a finite value exists for ID
b) The query gives the RDBMS names where a finite value exists for ID and it excludes identical names
c) The query gives the names of the RDBMS that have a null ID and it also excludes identical names
d) The query is syntactically wrong

9) Which of the following is the correct output for the given query?
(SELECT databaseid
FROM RDBMS
WHERE SECTION = 'c')
EXCEPT
(SELECT databaseid
FROM RDBMS
WHERE id < 10);
a) All the values of the databaseid for which section is c and id > 10
b) All the values of the databaseid for which section not c and id > 10
c) All the values of the databaseid for which section is c and id < 10
d) All the values of the databaseid for which section not c and id < 10

10) Which of the following commands do we use to delete a relation (RDBMS) from a database?
a) delete table RDBMS
b) drop table RDBMS
c) delete from RDBMS
d) drop relation RDBMS

11) If RDBMS1, RDBMS2, RDBMS3 are attributes in a relation and S is another relation, which of the

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following is an incorrect specification of an integrity constraint?
a) foreign key(RDBMS1, RDBMS2)
b) foreign key(RDBMS1, RDBMS2) references S
c) primary key(RDBMS1, RDBMS2, RDBMS3)
d) primary key(RDBMS1)

12) Which of the following is the time of temporal data that record when a fact was recorded in a database?
a) Enter time
b) Exit time
c) Valid time
d) Transaction time

13) _____ deletes a data item from a database.
a) Insert(RDBMS)
b) Drop(RDBMS)
c) Delete(RDBMS)
d) None of the mentioned

14) What is the result of the following query?
SELECT studentdatabasename
FROM RDBMS
WHERE marks > SOME (SELECT marks
FROM student
WHERE SECTION = 'c');
a) The query gives all the studentdatabasename for which marks are greater than all the students in section c
b) The query gives all the studentdatabasename for which the marks are greater than at least on student in section c
c) The query gives all the studentdatabasename for which the marks are less than all the students in section c
d) The query is syntactically incorrect

15) _____ is a predicate that we expect the database to always satisfy
a) Reason
b) Mandate
c) Assertion
d) Verify

16) Which of the following is a good database management practice?
a) Adding redundant attributes
b) Not specifying primary keys
c) Removing redundant attributes
d) None of the mentioned

17) What is an Instance of a Database?
a) The state of the database system at any given point of time
b) The entire set of attributes of the Database put together in a single relation
c) The initial values inserted into the Database immediately after its creation
d) The logical design of the database system

18) The schema for the relationship set linking a weak entity set to its corresponding strong entity set is redundant.
a) False
b) True

19) Which of the following information does the database system catalog store?
a) Number of blocks
b) Size of a tuple of a relation
c) Number of tuples
d) All of the mentioned

20) If the database modifications occur while the transaction is still active, the transaction is said to use the _____ modification technique
a) Immediate
b) Deferred
c) More than one of the mentioned
d) None of the mentioned

21) If a transaction does not modify the database until it has committed it is said to use a _____ modification technique
a) Immediate

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b) Deferred
c) More than one of the mentioned
d) None of the mentioned

22) The dependency rules specified by the database designer are known as _____
a) Functional dependencies
b) Designer dependencies
c) Database rules
d) None of the mentioned

23) During the _____ phase, the local variables that hold the write operations are copied to the database
a) Validation phase
b) Write phase
c) Read phase
d) None of the mentioned

24) What is the format of entering date into a database while inserting data into it?
a) "YYYY-MM-DD"
b) YYYY-MM-DD
c) "DD-MM-YYYY"
d) 'YYYY-MM-DD'

25) What does the following query do?
UPDATE student
SET marks = marks*1.10;
a) It decreases the marks of all the students by 90%
b) It increases the marks of all the students by 10%
c) It is syntactically wrong
d) It increases the marks of all the students by 110%

26) Which of the following cannot be used to modify the data in a database?
a) delete
b) update
c) drop
d) insert

27) Observe the given SQL query and choose the correct option.

```
SELECT database_name, RDBMS (DISTINCT bankuser_name)
FROM depositor, account
WHERE depositor.account_number = account.account_number
GROUP BY branch_id
```

a) The query is syntactically correct and gives the correct answer
b) The query is syntactically wrong
c) The query is syntactically correct but gives the wrong answer
d) The query contains one or more wrongly named clauses

28) A relational database consists of a collection of _____ .
a) Tables
b) Fields
c) Records
d) Keys

29) A _____ in a table represents a relationship among a set of values.
a) Column
b) Key
c) Row
d) Entry

30) Which term is used to refer to a row?
a)Attribute
b) Tuple
c) Field
d) Instance

31) For each attribute of a relation, there is a set of permitted values, called the _____ of that attribute.
a) Domain
b) Relation
c) Set
d) Schema

32) _____ is a procedural language.

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a) Domain relational calculus
b) Relational algebra
c) Tuple relational calculus
d) Query language

33) A _____ is a query that retrieves rows from more than one table or view.
a) Start
b) End
c) Join
d) None of the mentioned

34) Which join refers to join records from the write table that have no matching key in the left table are include in the result set?
a) Left outer join
b) Right outer join
c) Full outer join
d) Half outer join

35) Which of the following creates a virtual relation for storing the query ?
a) Function
b) View
c) Procedure
d) None of the above

36) The number of attributes in relation is called as its _____ .
a) Cardinality
b) Degree
c) Tuples
d) Entity

37) Functional Dependencies are the types of constraints that are based on _____ .
a) Key
b) Superset key
c) Key revisited
d) None of the above

38) _____ forms are based on the concept of functional dependency.
a) 1NF
b) 2NF
c) 3NF
d) 4NF

39) Trigger are supported in _____ .
a) Delete
b) Update
c) Views
d) All the above

40) _____ forms has a relation that possesses data about an individual entity.
a) 2NF
b) 3NF
c) 4NF
d) 5NF

41) Rerential integrity is directly related to _____ .
a) Relation key
b) Foreign key
c) Primary key
d) Candidate key

42) E-R modeling technique is _____ .
a) Tree structure
b) Top-down method
c) Bottom-up method
d) Right-left approach

43) ER Model Comes under _____ .
a) Physical data Model
b) Record based logical Model
c) Object based logical Model
d) None of Above

44) A _____ is an association among several entities.
a) Relationship
b) Association
c) Set
d) combination

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45) What type of join is needed when you wish to include rows that do not have matching values?
a) Equi-join
b) Natural join
c) Outer join
d) All of the above

46) _____ is NOT a type of SQL constraint.
a) PRIMARY KEY
b) FOREIGN KEY
c) ALTERNATE KEY
d) UNIQUE

47) In a one-to-many relationship, the entity that is on the one side of the relationship is called a(n) _____ entity.
a) parent
b) child
c) Instance
d) Subtype

48) _____ is a single-entity instance of one type related to many entity instances of another type?
a) One-to-One Relationship
b) One-to-Many Relationship
c) Many-to-Many Relationship
d) Composite Relationship

49) Properties that describe the characteristics of entities are called _____ .
a) Entities
b) Attributes
c) Identifiers
d) Relationships

50) _____ is the function of the union operation?
a) It combines the results of any two different queries
b) It combines the results of two different queries which have the same set of attributes in the select clause
c) It combines the results of two different queries which have the same condition in the where clause
d) It gives the Cartesian product of the results of any 2 queries

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