Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - – Database Management Systems Course Code - MCA203

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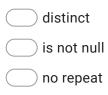
Answer all the questions. Each question carry one mark.

9. 1.The restrictions placed on the data.

- Relation
- Attribute
- Parameter
- Constraint

10. 2.Using the _____ clause retains only one copy of identical tuples

Mark only one oval.



- ____ from
- 11. 3.The candidate keys which are not selected as primary key is called

Mark only one oval.

- Super Keys
- Alternate Keys
- None of these
- 12. 4.In 2NF, which dependency is going to be eliminated?

- Trivial dependencies
- Partial dependencies
- Multivalued dependencies
- Transitive dependencies

13. 5. Which two files are used during operation of the DBMS?

Mark only one oval.

- Query languages and utilities
- DML and query language
- Data dictionary and transaction log
- Data dictionary and query language
- 14. 6.Select operator (\hat{I}) works row wise where as project operator(\hat{I}) works

Mark only one oval.

- Row wise only
- Column wise only
- Row and Column both
- None of these
- 15. 7.The database schema is written in

- HLL

16. 8.The subset of a super key is a candidate key under what condition?

Mark only one oval.

- No proper subset is a super key
- All subsets are super keys
- Subset is a super key
- Each subset is a super key
- 17. 9.If every non-key attribute is functionally dependent on the primary key, then the relation will be in

Mark only one oval.

- _____ 2NF
- 3NF
- 4NF
- 10.When transaction Ti requests a data item currently held by Tj, Ti is allowed to wait only if it has a timestamp smaller than that of Tj (that is, Ti is older than Tj). Otherwise, Ti is rolled back (dies). This is

Mark only one oval.

Wait-die Wait-wound Wound-wait

19. 11.Four DML commands are

Mark only one oval.

Create, Update, Delete, Select

Insert, Update, Delete, Select

Create, Alter, Delete, Selec

- Insert, Modify, Delete, Select
- 20. 12._____ is a virtual table that draws its data from the result of an SQLSELECT statement.

Mark only one oval.

\bigcirc	View
\bigcirc	Synonym
\bigcirc	Sequence
\bigcirc	Transaction

21. 13.___ is the raw facts and figures of information.

Mark only one oval.

🔵 Data

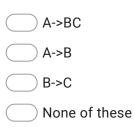
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SQL

None of these

22. 14.There are two functional dependencies with the same set of attributes on the left side of the arrow: A->BC A->B This can be combined as

Mark only one oval.



23. 15.Which of the following timestamp based protocols generates serializable schedules?

Mark only one oval.

Thomas write rule

Timestamp ordering protocol

Validation protocol

None of these.

24. 16.____ command is used to delete a table.

Mark only one oval.

CREATE

ALTER

DROP

None of these

25. 17.What is the syntax to load data into the database? (Consider D as the database and a, b, c as data)

Mark only one oval.

- enter into D (a, b, c);
- insert into D values (a, b, c);
- insert into D (a, b, c);
-) insert (a, b, c) values into D;
- 26. 18.What is the method of specifying a primary key in a schema description?

Mark only one oval.

- By writing it in bold letters
- By underlining it using a dashed line
- By writing it in capital letters
- By underlining it using a bold line
- 27. 19.Database locking concept is used to solve the problem of

- 🔵 Lost Update
- Uncommitted Dependency
- 📃 Inconsistent Data
- All of these

28. 20.An ER model was introduced by

Mark only one oval.

E.F.Codd P.P.Chen Constantine

29. 21.select distinct dept_name from institute; What does the above query do?

Mark only one oval.

- It gives all the tuples having a distinct dept_name
- It gives the dept_name attribute values of all tuples without repetition
- It gives all the dept_name attribute of all the tuples
- It gives all the tuples having a null value under the dept_name attribute
- 30. 22.An instance of relational schema R (A, B, C) has distinct values of A including NULL values. Which one of the following is true?

- A is a candidate key
- A is not a candidate key
- 🔵 A is a primary Key
- None of these

31. 23.Which of the following is a group of one or more attributes that uniquely identifies a row?

Mark only one oval.

Key Determinant Tuple Relation

32. 24.The method of access which uses key transformation is known as

Mark only one oval.

\square	direct
\square	hash
\square) tree
\square	indirect

33. 25.In an ER model, which one is described in the database for storing its data?

- ____ entity
- _____ attribute
- relationship
- notation

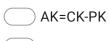
34. 26.Which of the following is not a built in aggregate function in SQL?

Mark only one oval.

\bigcirc	avg
\bigcirc	max
\bigcirc	total
\bigcirc	count

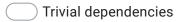
35. 27.Which of the following is correct AK=Alternate Key,CK=Candidate Key, PK=Primary Key.

Mark only one oval.



- AK=CK+PK
- AK=SK-PK
- None of these
- 36. 28.In 3NF, which dependency is going to be eliminated?

Mark only one oval.



Partial dependencies

- Multivalued dependencies
- Transitive dependencies

37. 29.A clustering index is defined on the fields which are of type

Mark only one oval.

Non-key and ordering

- Non-key and non-ordering
- Key and ordering
- Key and non-ordering
- 38. 30.When we want to display records within attributes from many relations then we use

Mark only one oval.

- SELECT operation
- PROJECT operation
- JOIN operation
- None of these
- 39. 31.Key to represent relationship between tables is called

- 🔵 primary key
- secondary key
- foreign key.
- None of these

40. 32.Address field of a person should not be part of primary key, since it is likely to

Mark only one oval.

_____ unchanged

- ____ changed
- No change
- None of these
- 41. 33.The file organization which allows us to read records that would satisfy the join condition by using one block read is

Mark only one oval.

- Heap file organization
- Sequential file organization
- Clustering file organization
- Hash file organization
- 42. 34.The _____ graph describes deadlocks precisely

- 🕖 Wound wait graph
- 🔵 Wait die graph
- Wait for graph
- None of these

43. 35.To remove duplicate rows from the results of an SQL SELECT statement, the _____ qualifier specified must be included.

Mark only one oval.

ONLY

- SINGLE
- 44. 36.A table joined with itself is called

Mark only one oval.

\bigcirc	Join
\bigcirc	Self Join
\bigcirc	Outer Join
\bigcirc	Equi Join

45. 37.An attribute in a relation is a foreign key if the _____ key from one relation is used as an attribute in that relation.

Mark only one oval.

Candidate

Primary

- Super
- Sub

46. 38. Functional dependencies are a generalization of

Mark only one oval.

Key dependencies

- Relation dependencies
- Database dependencies
- None of these
- 47. 39.The ______ scheme uses a page table containing pointers to all pages; the page table itself and all updated pages are copied to a new location.

Mark only one oval.

- Shadow copy
- Shadow Paging
- Update log records
- All of these
- 48. 40.Which of the following commands do we use to delete a relation (R) from a database?

- drop table R
- drop relation R
- 🔵 delete table R
- 🔵 delete from R

49. 41.The situation where no transaction can proceed with normal execution is known as _____

Mark only one oval.

Road block

- Deadlock
- Execution halt
- Abortion
- 50. 42. Which of the following information does an SQL DDL not specify?

Mark only one oval.

- The schema for each relation
- The integrity constraints
- The operations on the tuples
- None of these
- 51. 43.Choose the correct statement regarding superkeys.

Mark only one oval.

A superkey is an attribute or a group of multiple attributes that can uniquely identify a tuple

A superkey is a tuple or a set of multiple tuples that can uniquely identify an attribute

Every superkey is a candidate key

A superkey is an attribute or a set of attributes that distinguish the relation from other relations

52. 44.In the relational model, relationships between relations or tables are created by using:

Mark only one oval.

____ null keys.

- candidate keys
- ____ primary keys
- _____ foreign keys
- 53. 45.A relation with degree N , is known as

Mark only one oval.

N-ary relation
1-ary relation
2-ary relation
None of these

54. 46.The _____ aggregation operation adds up all the values of the attribute.

Mark only one oval.

🔵 add

____ avg

- max
- 🔵 sum

55. 47.A key that has no meaning to the business or organization is.

Mark only one oval.

Candidate Key

- Alternate Key
- Artificial Key
- None of these
- 56. 48.A relation is in this form if it is in BCNF and has no multivalued dependencies:

Mark only one oval.

- 🔵 second normal form
- _____ third normal form
- _____ fourth normal form
- 📃 domain key normal form
- 57. 49.Which index is specified on the non-ordering fields of a file?

Mark only one oval.

Primary

Clustering

- Secondary
- None of these

58. 50.VDL stands for

Mark only one oval.

- Very small data language
- View data language
- View Definition Language
- None of these
- 59. 51.A foreign key refers to another ____

Mark only one oval.

- Table
 Row
 Column
- None of these
- 60. 52. Primary key should be chosen such that its attribute values are

Mark only one oval.



____ changed

- ____ dependent
- Never changed

61. 53. Files are logically partitioned into storage units of fixed-length known as

Mark only one oval.

\square	sector
\square	tracks
\square	segment
\square	blocks

62. 54.____ command is used to give permission.

Mark only one oval.



63. 55.The _____ operator is used to compare a value to a list of literals values that have been specified.



64. 56. Which one of the following cannot be taken as a primary key?

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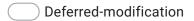
id roll

_____ street

65. 57.A BCNF is

Mark only one oval.

- Lossless join and dependency preserving
- Lossless join but not dependency preserving
- Not Lossless join but dependency preserving
- None of these
- 66. 58.If database modifications occur while the transaction is still active, the transaction is said to use the _____technique.

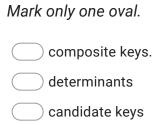


- Late-modification
- Immediate-modification
- 🔵 Undo

67. 59.A data manipulation command the combines the records from one or more tables is called

Mark only one oval.

- SELECT
- PROJECT
- PRODUCT
- 68. 60.The primary key is selected from the:



_____ foreign keys

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