

# 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.

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- Relation
- Attribute
- Parameter
- Constraint

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

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- distinct
- is not null
- no repeat
- from

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

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- Super Keys
- Candidate Keys
- Alternate Keys
- None of these

12. 4.In 2NF, which dependency is going to be eliminated?

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

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

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- Query languages and utilities
- DML and query language
- Data dictionary and transaction log
- Data dictionary and query language

14. 6.Select operator (∩) works row wise where as project operator(̂) works

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- Row wise only
- Column wise only
- Row and Column both
- None of these

15. 7.The database schema is written in

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- HLL
- DML
- DDL
- DCL

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

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- 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

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- 1NF
- 2NF
- 3NF
- 4NF

18. 10.When transaction  $T_i$  requests a data item currently held by  $T_j$ ,  $T_i$  is allowed to wait only if it has a timestamp smaller than that of  $T_j$  (that is,  $T_i$  is older than  $T_j$ ). Otherwise,  $T_i$  is rolled back (dies). This is

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- Wait-die
- Wait-wound
- Wound-wait
- Wait

19. 11.Four DML commands are

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- 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.

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- View
- Synonym
- Sequence
- Transaction

21. 13.\_\_\_ is the raw facts and figures of information.

*Mark only one oval.*

- Data
- Information
- SQL
- None of these



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

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- $A \rightarrow BC$
- $A \rightarrow B$
- $B \rightarrow C$
- None of these

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

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- 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)

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- 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?

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- 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

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- 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
- None of these

29. 21.select distinct dept\_name from institute; What does the above query do?

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- 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?

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- 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?

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- Key
- Determinant
- Tuple
- Relation

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

*Mark only one oval.*

- direct
- hash
- tree
- indirect

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

*Mark only one oval.*

- entity
- attribute
- relationship
- notation

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

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- avg
- max
- total
- count

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

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- AK=CK-PK
- AK=CK+PK
- AK=SK-PK
- None of these

36. 28.In 3NF, which dependency is going to be eliminated?

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- Trivial dependencies
- 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

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- 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

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- Heap file organization
- Sequential file organization
- Clustering file organization
- Hash file organization

42. 34.The \_\_\_\_\_ graph describes deadlocks precisely

*Mark only one oval.*

- 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
- UNIQUE
- DISTINCT
- SINGLE

44. 36.A table joined with itself is called

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- Join
- Self Join
- Outer Join
- 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.

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- Candidate
- Primary
- Super
- Sub



46. 38.Functional dependencies are a generalization of

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- 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.

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- 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?

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- 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?

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- The schema for each relation
- The integrity constraints
- The operations on the tuples
- None of these

51. 43.Choose the correct statement regarding superkeys.

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- 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:

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- 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.*

- Sometimes changed
- changed
- dependent
- Never changed

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

*Mark only one oval.*

- sector
- tracks
- segment
- blocks

62. 54. \_\_\_\_\_ command is used to give permission.

*Mark only one oval.*

- GRANT
- ALTER
- CREATE
- None of these

63. 55. The \_\_\_\_\_ operator is used to compare a value to a list of literal values that have been specified.

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- BETWEEN
- ANY
- IN
- ALL

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

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- name
- id
- roll
- street

65. 57.A BCNF is

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- 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.

*Mark only one oval.*

- Deferred-modification
- 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
- JOIN
- PRODUCT

68. 60.The primary key is selected from the:

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- composite keys.
- determinants
- candidate keys
- foreign keys

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