COA 203

B.A/B.Sc IVth SEMESTER EXAMINATION, 2023-24

COMPUTER APPLICATION

(Database Management System)

Credit (4+0)

(CBCS MODE)

Date (तिथि) : _____

Paper ID
(To be filled in the OMR Sheet)

5619

अनुक्रमांक (अंकों में) :
Roll No. (In Figures) :

अनुक्रमांक (शब्दों में) :

Roll No. (In Words) : _____

Time : 1:30 Hrs.
समय : 1:30 घण्टे

Max. Marks : 75
अधिकतम अंक : 75

नोट : पुस्तिका में 50 प्रश्न दिये गये हैं, सभी प्रश्न करने होंगे। प्रत्येक प्रश्न 1.5 अंक का होगा।

Important Instructions :	**महत्वपूर्ण निर्देश :**
1. The candidate will write his/her Roll Number only at the places provided for, i.e. on the cover page and on the OMR answer sheet at the end and nowhere else.	1. अभ्यर्थी अपने अनुक्रमांक केवल उन्हीं स्थानों पर लिखेंगे जो इसके लिए दिये गये हैं, अर्थात् प्रश्न पुस्तिका के मुख्य पृष्ठ तथा साथ दिये गये ओ०एम०आर० उत्तर पत्र पर, तथा अन्यत्र कहीं नहीं लिखेंगे।
2. Immediately on receipt of the question booklet, the candidate should check up the booklet and ensure that it contains all the pages and that no question is missing. If the candidate finds any discrepancy in the question booklet, he/she should report the invigilator within 10 minutes of the issue of this booklet and a fresh question booklet without any discrepancy be obtained.	2. प्रश्न पुस्तिका मिलते ही अभ्यर्थी को जाँच करके सुनिश्चित कर लेना चाहिए कि इस पुस्तिका में पूरे पृष्ठ हैं और कोई प्रश्न छूटा तो नहीं है। यदि कोई विसंगति है तो प्रश्न पुस्तिका मिलने के 10 मिनट के भीतर ही कक्ष परिप्रेक्षक को सूचित करना चाहिए और बिना त्रुटि की दूसरी प्रश्न पुस्तिका प्राप्त कर लेना चाहिए।

1. The expansion of the term ACID defines for :
   (A)   Atomic, Consistence, Isolate, Durable
   (B)   Actual, Correct, Incidence, Driving
   (C)   Atomicity, Consistency, Isolation, Durability
   (D)   None of these

2. What is the alternative name for a Weak entity ?
   (A)   Dominant
   (B)   Owner
   (C)   Child
   (D)   All of the above

3. Which of the following is not a property of transactions ?
   (A)   Atomicity
   (B)   Concurrency
   (C)   Isolation
   (D)   Durability

4. The rule that a value of a foreign key must appear as a value of some specific table is called a :
   (A)   Referential Constraint
   (B)   Index
   (C)   Integrity Constraint
   (D)   Functional dependency

5. Which relation exist if an attribute of composite key is dependent on an attribute of other composite key :
   (A)   2NF
   (B)   3NF
   (C)   BCNF
   (D)   1NF

6. The operation which is not considered a basic operation of relational Algebra :
   (A)   Join
   (B)   Selection
   (C)   Union
   (D)   Cross Product

7. E-R Model uses this symbol to represent weak entity set :
   (A) Dotted rectangle
   (B) Diamond
   (C) Doubly outlined rectangle
   (D) None of these

8. Which of the following is a valid SQL type ?
   (A) Character
   (B) Numeric
   (C) Float
   (D) All of the above

9. Which of the following is a comparision operator in SQL ?
   (A) =
   (B) LIKE
   (C) BETWEEN
   (D) ALL

10. In E-R Diagram derived attribute are represented by :
    (A) Ellipse
    (B) Dashed ellipse
    (C) Rectangle
    (D) Triangle

11. Relational Algebra does not have :
    (A) Selection operator
    (B) Projection operator
    (C) Aggregation operator
    (D) Division operator

12. In an E-R diagram double lines indicate :
    (A) Total participation
    (B) Multiple participation
    (C) Cardinality N
    (D) None of the above

Scanned with OKEN Scanner

13. Fifth normal form is concerned with :

    (A) Multivalued

    (B) Join dependency

    (C) Domain-key

    (D) None of the above

14. DROP is considered as _____ statement in SQL :

    (A) Query

    (B) Embedded SQL

    (C) DDL

    (D) DCL

15. Relational Algebra is :

    (A) Data definition language

    (B) Meta language

    (C) Procedural query language

    (D) None of the above

16. The normal form that is not necessarily dependency preserving is :

    (A) 2NF

    (B) 3NF

    (C) BCNF

    (D) 4NF

17. The normalization was first proposed by :

    (A) Code

    (B) Codd

    (C) Boyce Codd

    (D) Boyce

18. Relations Produced from an E-R diagram will always be :

    (A) 1NF

    (B) 2NF

    (C) 3NF

    (D) 4NF

19. Which normal form is considered adequate for normal relational database design ?

 (A) 2NF

 (B) 5NF

 (C) 4NF

 (D) 3NF

20. Which of the following ensures the atomicity of the transaction ?

 (A) Transaction management component of DBMS

 (B) Application Programmer

 (C) Concurrency control component of DBMS

 (D) Recovery management component of DBMS

21. What will be the number of columns and rows respectively obtained for the operations, A-B if A B are base union compatible and all the rows of A are common to B ? Assume A has 4 Columns and 10 rows; and B has 4 Columns and 15 rows

 (A) 4, 0

 (B) 0, 0

 (C) 4, 5

 (D) 8, 5

22. Dependency preservation is not guaranteed in :

 (A) BCNF

 (B) 3NF

 (C) PJNF

 (D) DKNF

23. What does SQL depend on ?

 (A) Relational Algebra

 (B) Tuple relational calculus

 (C) Both (A) and (B)

 (D) None of these

24. Which of the following is a limitation in Network data Model ?
  (A) Simple
  (B) Difficult design
  (C) Low-Maintenance
  (D) Low- Cost

25. SQL Stands for :
  (A) Sort-Query-List
  (B) Self-Quantifying-Language
  (C) Seek-Quality-Label
  (D) Structured Query Language

26. Data that cause inconsistency lacks :
  (A) Data Integrity
  (B) Data redundancy
  (C) Data anomaly
  (D) Good data

27. An entity related to itself in an ER Model refers to ?
  (A) Recursive relationship
  (B) One to many relationship
  (C) Many to many relationship
  (D) One to one relationship

28. In an ER diagram a rectangle represents :
  (A) Weak entity
  (B) Relationship
  (C) Attributes
  (D) Entity class

29. The degree of a relationship refers to the :
  (A) Number of entities
  (B) Maximum cardinality
  (C) Minimum cardinality
  (D) Number of attributes in the identifiers

30. The goal of Normalization is to :
    (A)   Get stable data structure
    (B)   Increase number of relation
    (C)   Increase redundancy
    (D)   None of these

31. In 2NF which for me of dependency is removed ?
    (A)   Functional
    (B)   Partial
    (C)   Associative
    (D)   Transitive

32. A relation is in 3rd normal form if it is in 2nd normal form and _____ ?
    (A)   Dependency on part of the key
    (B)   Dependent on all of the key
    (C)   Independent of the key
    (D)   Has no transitive dependencies

33. Which of the following are anomalies that can be caused by redundancy in tables ?
    (A)   Insertion
    (B)   Deletion
    (C)   Modification
    (D)   All

34. A functional dependency is a relationship between or among ?
    (A)   Tables
    (B)   Rows
    (C)   Columns
    (D)   Attributes

35. A relation is in This form if it is in BCNF and no multi-value dependencies :
    (A)   First
    (B)   Second
    (C)   Third
    (D)   Fourth

36. In BCNF, every _____ in a table is a candidate key.
   (A) Determinant
   (B) Entity
   (C) Atomic attribute
   (D) Primary key

37. SQL is a :
   (A) Unstructured language
   (B) Structured language
   (C) Object oriented language
   (D) Software

38. During transaction before commit which of the following statement is done automatically in case of shutdown ?
   (A) Rollback
   (B) Commit
   (C) View
   (D) Flashback

39. Which of the following is a type of Data manipulation command ?
   (A) Create
   (B) Alter
   (C) Delete
   (D) All of the above

40. Which file is used to write the different types of Fox Pro Program ?
   (A) Report File
   (B) Lable File
   (C) Program File
   (D) Index File

41. Data dictionary is also known as :

    (A)   Function catalog

    (B)   Data catalog

    (C)   Storage catalog

    (D)   System catalog

42. Which part of the database stores information about the data ?

    (A)   Data dictionary

    (B)   Data repository

    (C)   Data warehouse

    (D)   Administrative data systems

43. How many types of functional dependencies are there ?

    (A)   1

    (B)   2

    (C)   3

    (D)   4

44. How many types of data independence are there ? .

    (A)   1

    (B)   2

    (C)   3

    (D)   4

45. To which of the following the term "DBA" referred ?

    (A)   Data Bank Administrator

    (B)   Database Administrator

    (C)   Data Administrator

    (D)   None of the above

46. Which of the following key is generally used to represents the relationship between the tables ?

    (A)   Primary Key

    (B)   Foreign Key

    (C)   Secondary Key

    (D)   None of the above

47. Which of the following is not an integrity constraints ?

    (A)   Not Null

    (B)   Positive

    (C)   Unique

    (D)   Check 'Predicate'

48. Which of the following is a DBMS package ?

    (A)   Tally

    (B)   FoxPro

    (C)   MS-Word

    (D)   None of these

49. The most commonly used database system is :

    (A)   Relational

    (B)   Hierarchical

    (C)   Network

    (D)   None of these

50. Which of the following is not a DBMS package ?

    (A)   ORACLE

    (B)   MS-Access

    (C)   FoxPro

    (D)   MS-PowerPoint

*****