



CSC 104 F / CSC 104

B.Sc. IInd SEMESTER EXAMINATION, 2024-25

COMPUTER SCIENCE

(Database Management System)

AFFIX PRESCRIBED
RUBBER STAMP

Paper ID

(To be filled in the
OMR Sheet)

5387

Date (तिथि) : _____

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 :

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.
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.

महत्वपूर्ण निर्देश :

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. 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. Select the definition of the correct key which is used to represent relation between two tables ?
 - (A) Candidate key
 - (B) Foreign key
 - (C) Primary key
 - (D) Super key

2. How many levels are there in architecture of database ?
 - (A) 5
 - (B) 4
 - (C) 3
 - (D) 2

3. Which of the following is known as a set of entities of the same type that share same properties, or attributes ?
 - (A) Relation set
 - (B) Tuples
 - (C) Entity set
 - (D) Entity Relation model

4. Which of the following is not a function of the database ?
 - (A) Managing stored data
 - (B) Manipulating data
 - (C) Security for stored data
 - (D) Analyzing code

5. In which of the following formats data is stored in the database management system ?
- (A) Image
 - (B) Text
 - (C) Table
 - (D) Graph
6. Which of the following are some common RDBMS in use ?
- (A) ORACLE
 - (B) MYSQL
 - (C) HeidiSQL
 - (D) All of the above
7. Which command is used to create a new table in SQL ?
- (A) CREATE TABLE
 - (B) BUILD TABLE
 - (C) GENERATE TABLE
 - (D) NONE OF THE ABOVE
8. What does the following query do ? DROP TABLE STUDENT
- (A) Delete a table called student
 - (B) Create a table student
 - (C) Empty a table student
 - (D) None of the above
9. Which of the following command is used to delete all rows in a table ?
- (A) DROP
 - (B) TRUNCATE
 - (C) EMPTY
 - (D) ALTER

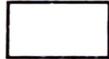
10. Which is a part of DCL ?
- (A) REVOKE
 - (B) GRANT
 - (C) Both (A) & (B)
 - (D) None of the above
11. The full form of DCL is ____.
- (A) Data Create Language
 - (B) Data Command Language
 - (C) Data Control Language
 - (D) All of the above
12. What is the full form of DML ?
- (A) Data Manipulation Language
 - (B) Data Monitor Language
 - (C) Data Multiple Language
 - (D) None of the above
13. What are rows of a relation known as ?
- (A) Degree
 - (B) Entity
 - (C) Tuple
 - (D) None
14. Which of the following allows you to uniquely identify a tuple ?
- (A) Schema
 - (B) Attribute
 - (C) Super key
 - (D) Domain

15. Which of the following are valid operators in SQL ?
- (A) Some
 - (B) All
 - (C) AND
 - (D) All of the above
16. Which of the following is a valid aggregate junction ?
- (A) Count ()
 - (B) Sum ()
 - (C) Avg ()
 - (D) All of the above
17. Which of the following is a DDL command ?
- (A) Revoke
 - (B) Grant
 - (C) Create
 - (D) Rollback
18. Which of the following is known as the minimal superkey ?
- (A) Primary key
 - (B) Foreign key
 - (C) Candidate key
 - (D) None of the above
19. Which is also known as concatenated key ?
- (A) Primary key
 - (B) Foreign key
 - (C) Surrogate key
 - (D) Composite key

20. Primary key can be ____.
- (A) NULL
 - (B) NOT NULL
 - (C) Both (A) & (B)
 - (D) None
21. What is NOLOCK in SQL equivalent to ?
- (A) Write uncommitted
 - (B) Read committed
 - (C) Write committed
 - (D) Read uncommitted
22. The full form of SQL is ____.
- (A) Structured Query List
 - (B) Sample Query Language
 - (C) Structured Query Language
 - (D) None of the above
23. Which of the following are TCL commands ?
- (A) ROLLBACK
 - (B) SAVEPOINT
 - (C) Both (A) & (B)
 - (D) None

24. What is the full form of DBMS ?
- (A) Data Manage System
 - (B) Database Management System
 - (C) Database Management Service
 - (D) Data Backup System
25. Which of the following is not a type of database ?
- (A) Hierarchical
 - (B) Network
 - (C) Distributed
 - (D) Decentralized
26. Which is not an example of DBMS ?
- (A) MySQL
 - (B) Microsoft Access
 - (C) IBM DB2
 - (D) Google
27. The data about data is called _____
- (A) Hyper data
 - (B) Tera data
 - (C) Meta data
 - (D) Relations

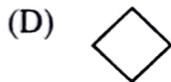
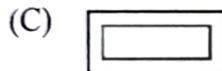
28. Which command is used to remove a relation from an SQL ?
- (A) Drop Table
 - (B) Delete
 - (C) Purge
 - (D) Remove
29. Full form of TCL is ____.
- (A) Table Control Language
 - (B) Transaction Create Language
 - (C) Table Create Language
 - (D) Transaction Control Language
30. Entity is a _____.
- (A) Present working model
 - (B) Model of a relation
 - (C) Rows of a relation
 - (D) Things in real world
31. The descriptive property possessed by each entity set is _____.
- (A) Entity
 - (B) Attribute
 - (C) Relation
 - (D) Model

32. The attribute AGE is calculated from DATE-OF-BIRTH. The attribute AGE is called _____.
- (A) Single valued
 - (B) Multi valued
 - (C) Composite
 - (D) Derived
33. The collection of interrelated records is called ____.
- (A) Management information System
 - (B) Utility file
 - (C) Database
 - (D) DBMS
34. Which Symbol denote derived attributes in ER model ?
- (A) 
 - (B) 
 - (C) 
 - (D) 
35. Relations produced from E-R Model will always be in _____.
- (A) 1 NF
 - (B) 2 NF
 - (C) 3 NF
 - (D) 4 NF

36. Multivalued attribute is represented as _____.



37. Weak entity is represented as _____.



38. In ER diagram attributes are represented by _____.

(A) Ellipse

(B) Rectangle

(C) Triangle

(D) Square

39. Consider binary relationships, possible cardinality ratios are :-

(A) One : one

(B) 1 : N

(C) M : N

(D) All of the above

40. In the _____ normal form, a composite attribute is converted to individual attributes.
- (A) First
 - (B) Second
 - (C) Third
 - (D) Fourth
41. A _____ Consists of a sequence of query or operation.
- (A) Transaction
 - (B) Commit
 - (C) Roll back
 - (D) Flash back
42. Which makes the transaction permanent in the database ?
- (A) View
 - (B) Commit
 - (C) Roll back
 - (D) Update
43. _____ used to undo the work of transaction after last commit.
- (A) View
 - (B) Commit
 - (C) Roll back
 - (D) Delete

44. A transaction completes its execution is said to be -
- (A) Aborted
 - (B) Committed
 - (C) Rolled back
 - (D) Failed
45. Which of the following is the property of transaction ?
- (A) Atomicity
 - (B) Concurrency
 - (C) Isolation
 - (D) All of the above
46. Isolation of the Transaction is ensured by -
- (A) Transaction management
 - (B) Programmer
 - (C) Concurrency control
 - (D) Recovery management
47. If every non-key attribute functionally dependent on the primary key, then the relation will be in ____.
- (A) First Normal form
 - (B) Second Normal form
 - (C) Third Normal form
 - (D) Fourth Normal form
48. A relation is in ____ form if every field contains only atomic values :-
- (A) 1st NF
 - (B) 2nd NF
 - (C) 3rd NF
 - (D) 4th NF

49. ____ Normal form is based on the concept of Transitive dependency.
- (A) 1 NF
 - (B) 2 NF
 - (C) 3 NF
 - (D) 4 NF
50. The process to minimized the redundancy is called ____.
- (A) Rationalization
 - (B) Synchronization
 - (C) Normalization
 - (D) Database design
