The Yenepoya Institute of Arts, Science, Commerce & Management
(A Constituent unit of Yenepoya Deemed to be University)
II Semester BCA (Big Data Analytics and Cloud Computing)
First Internal Examination- June 2022

BCS202 Data Base Management System

Time: 1.5 Hrs   **Max Marks: 50**

SECTION A

I. Answer the following questions.   **1x25=25**

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

2. The term _____ is used to refer to a row
a) Attribute   b) Tuple   c) Field   d) Instance

3. 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

4. What do you mean by one to many relationships?
   a) One class may have many teachers
   b) One teacher can have many classes
   c) Many classes may have many teachers
   d) Many teachers may have many classes

5. To which of the following the term "DBA" referred?
   a) Data Bank Administrator
   b) Database Administrator
   c) Data Administrator
   d) None of the above

6. Which of the following symbol is used to select all records in a table.
a) *   b) #   c) @   d) &

7. What is the full form of DBMS?
a) Data of Binary Management System
b) Database Management System
c) Database Management Service
d) Data Backup Management System

8. Entity is a _____
a) Object of relation   b) Present working model   c) Thing in real world
d) Model of relation

9. The attribute AGE is calculated from DATE_OF_BIRTH. The attribute AGE is
a) Single valued   b) Multi valued   c) Composite   d) Derived

10. The entity relationship set is represented in E-R diagram as
a) Double diamonds   b) Undivided rectangles   c) Dashed lines
d) Diamond

11. Which of the following is not a type of database?
a) Hierarchical
b) Network
c) Distributed
d) Decentralized
12. The ability to query data, as well as insert, delete, and alter tuples, is offered by
_____
a) TCL (Transaction Control Language)
b) DCL (Data Control Language)
c) DDL (Data Definition Langauge)
d) DML (Data Manipulation Langauge)
13. Given the basic ER and relational models, which of the following is incorrect?
a) An attribute of an entity can have more than one value
b) An attribute of an entity can be composite
c) In a row of a relational table, an attribute can have more than one value
d) In a row of a relational table, an attribute can have exactly one value or a NULL value
14. Which command is used to remove a relation from an SQL?
a) Drop table
b) Delete
c) Purge
d) Remove
15. The term "TCL" stands for_____
a) Ternary Control Language

b) Transmission Control Language
c) Transaction Central Language
d) Transaction Control Language
 16. An entity set that does not have sufficient attributes to form a primary key is a
a) strong entity set   b) weak entity set   c) simple entity set   d) primary entity set
17. The full form of DDL is
a) Dynamic Data Language   b) Detailed Data Language
c) Data Definition Language d) Data Derivation Language
18. Count function in SQL returns the number of
a) values   b) distinct values   c) groups   d) columns
19. To delete a particular column in a relation the command used is :
a) UPDATE   b) DROP   c) ALTER   d) DELETE
20. Which of the following is record based logical model?
a) Network Model b) Object Oriented Model   c) E-R Model d) None of these
21. Conceptual design
a) is a documentation technique.
b) needs data volume and processing frequencies to determine the size of the database.
c) involves modelling independent of the DBMS
d) is designing the relational model.
22. In which of the following formats data is stored in the database management system?
a) Image
b) Text

c) Table
d) Graph
23. Which of the following are the properties of entities?
a) Groups   b) Table   c) Attributes   d) Switchboards
24. Heirarchical model is also called
a) Tree structure   b) Plex Structure   c) Normalize Structure   d) Table Structure
25. Which of the following commands is used to save any transaction permanently into the database?
a) Commit
b) Rollback
c) Savepoint
d) None of the above

Section B

Answer any FIVE of the following Questions   **(5X5=25)**
26. Write short notes on DBMS architecture?

27. Tabulate the differences between Primary key and Foreign Key

28. Define the following terms - Data model, Schema, Instance, Entity, Attributes, Keys, Domain, Relation, Types of constrains

29. What is a Data Model? What is the importance of a Data Model?

30. Explain Data Abstraction in detail.

31. Explain the different types of database users.

32. SQL Commands (Syntax and commands for questions):

       a. Create Table
       b. Alter Table
       c. Update
       d. Delete
       e. Rename

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