

(7 Pages)

Reg. No. : .....

Code No. : 7493

Sub. Code KCAM 42/  
PCAM 42

M.C.A. (CBCS) DEGREE EXAMINATION,  
APRIL 2019.

Fourth Semester  
Computer Application  
RDBMS

(For those who joined in July 2016 and afterwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. An \_\_\_\_\_ is a set of entities of the same type that share the same properties or attributes.
- (a) Entity set
  - (b) Attribute set
  - (c) Relation set
  - (d) Entity model

2. The entity relationship set is represented in E-R diagram as
- (a) Double diamonds
  - (b) Undivided rectangles
  - (c) Dashed lines
  - (d) Diamond
3. In relational calculus, variables are bounded with help of
- (a) non-identifiers
  - (b) non-quantifiers
  - (c) quantifiers
  - (d) identifiers
4. Which forms are based on the concept of functional dependency:
- (a) 1NF                      (b) 2NF
  - (c) 3NF                     (d) 4NF
5. The Language used in application program to request data from the DBMS is referred to as
- (a) DML                    (b) DDL
  - (c) DQL                    (d) TCL

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6. In SQL, which command is used to issue multiple CREATE TABLE, CREATE VIEW and GRANT statements in a single transaction?

- (a) CREATE PACKAGE
- (b) CREATE SCHEMA
- (c) CREATE CLUSTER
- (d) All of the above

7. Each of types of authorizations is called a/an

- (a) Grant access      (b) Privilege
- (c) schema            (d) view

8. Current role associated with a session can be set by executing

- (a) set role            (b) define role
- (c) select role        (d) giant role

9. Trigger is special type of \_\_\_\_\_ procedure.

- (a) Stored              (b) Function
- (c) View                (d) Table

10. Which is a database object that groups logically related PL/SQL types, objects and subprograms?

- (a) Package
- (b) Module
- (c) Procedure
- (d) Function

**PART B — (5 × 5 = 25 marks)**

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Discuss about Transaction management.

Or

(b) What is Mapping constrains? Explain.

12. (a) Explain integrity constraints in relational database.

Or

(b) Explain domain-key normal form.



13. (a) Explain the following functions in SQL

(i) Translate

(ii) Decode

Or

(b) Explain the following transaction control commands in SQL with syntax and examples.

(i) Commit

(ii) Rollback

(iii) Autocommit

14. (a) Discuss password management.

Or

(b) Explain the working with abstract data type.

15. (a) Discuss about Loops in PL/SQL.

Or

(b) What is function? Write its syntax and how to compile, replace and drop procedures.

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**PART C — (5 × 8 = 40 marks)**

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain Entity Relationship model in detail.

Or

(b) Explain the responsibilities of Database Administrator.

17. (a) What is relational algebra? Explain its primary operations.

Or

(b) Explain Relational calculus and its types in detail.

18. (a) Explain in detail Outer, Natural and Inner joins in SQL.

Or

(b) Explain basic SQL operations with examples.

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19. (a) Explain the following:

- (i) Varying arrays
- (ii) large objects

Or

(b) What are Views? How can we define a View?  
Explain with examples.

20. (a) Explain procedures with example.

Or

(b) Explain in detail different types of triggers.

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