

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2022 ONLY)

22UBC307

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS :NOVEMBER-2023

COURSE NAME: B.C.A

MAXIMUM MARKS: 50

SEMESTER: III

TIME : 3 HOURS

PART - III

RELATIONAL DATABASE MANAGEMENT SYSTEM AND ORACLE

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(MULTIPLE CHOICE QUESTIONS)

(K1)

1. In an Entity-Relationship Diagram Rectangles represents
 - a) Entity sets
 - b) Attributes
 - c) Database
 - d) Tables
2. Type is a(n):_____.
 - a) column of atable
 - b) two dimensional table
 - c) row of atable
 - d) key of a tab
3. The.....Normalform,a composite attribute is converted to individual attributes.
 - a) First
 - b) Second
 - c) Third
 - d) Fourth
4. The.....operator preserves unmatched rows of the relations being joined.
 - a)Innerjoin
 - b) Outerjoin
 - c) Union
 - d)Unionjoin
5. The correct syntax to declare PL/SQL variable is _____.
 - A. variable_name [CONSTANT] datatype [NOT NULL] [:= | DEFAULT initial_value]
 - B. datatype [CONSTANT] variable_name [NOT NULL] [:= | DEFAULT initial_value]
 - C. variable_name [CONSTANT] datatype [NULL] [:= | DEFAULT initial_value]
 - D. datatype [CONSTANT] variable_name [NULL] [:= | DEFAULT initial_value]

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

(K2)

6. Define Schema.
7. Write the syntax for select statement.
8. What is database Authentication?
9. List some group functions in SQL
10. Define cursor.

SECTION – B

(5 X 3 = 15 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11.
 - a) Classify the various types of database languages with example
 - (OR)
 - b) Write short notes on transaction management .

(CONTD 2)

12. a) Define view and explain how to create view with example.
(OR)
b) Narrate the concept of relational algebra with example
13. a) Describe the concept of domain constraints with example.
(OR)
b) Examine the functional dependencies with example.
14. a) State and explain the codd's rule with example.
(OR)
b) Discuss in detail the various data types in SQL with example.
15. a) Give short notes on function with example.
(OR)
b) Classify the various types of Triggers with example.

SECTION – C**(5 X 5 = 25 MARKS)**

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.
(K4 (Or) K5)

16. a) Summarize the concept of Database Architecture with neat diagram.
(OR)
b) Elaborate the concept of reduction of ER schema to tables with example.
17. a) Evaluate the structure of Relational database with example.
(OR)
b) Narrate the concept of tuple relational calculus with example.
18. a) Explain in detail second and third normal form with example
(OR)
b) Discuss in detail encryption and authentication in dbms with example
19. a) Demonstrate the DDL and DML with example.
(OR)
b) Examine the various set operators with example.
20. a) Describe the structure of PL/SQL block with example .
(OR)
b) Develop the procedure for finding sum of ten numbers.
