(FOR THE CANDIDATES ADMITTED

DURING THE ACADEMIC YEAR 2022   ONLY)   REG.NO. :

22UCS412

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

END-OF-SEMESTER EXAMINATIONS : MAY-2024

BSC.COMPUTER SCIENCE(AIDED & SF)   MAXIMUM MARKS: 50

SEMESTER:IV   TIME : 3 HOURS

PART - III
22UCS412–RELATIONAL DATABASE MANAGEMENT SYSTEMS

SECTION – A   (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.   (K1)

1. What is a relation in RDBMS?

 a) Key   b) Table   c) Row   d) Data Types

2. Which forms has a relation that possesses data about an individual entity?

 a) 2NF   b) 3NF   c) 4NF   d) 5NF

3. Data in existing rows are changed with the _____statement.

 a) UPDATE   b)INSERT   c) DELETE   d) SELECT

4. To write a multiline comment, comment text is placed between _____

 a) / and /   b) !* an d *!   c) * and *   d) /* and */.

5. A _____is a named PL/SQL program block that can perform one or more tasks.

 a) procedure   b)array   c) cursor   d) exception

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES   (K2)

6. Define entity and attribute.
7. Explain SQL.

8. Describe DEFINE command with an example.

9. Indentify the fundamentals of PL/SQL.

10. Classify the various types of cursor.

SECTION – B   (5 X 3 = 15 MARKS)

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

11.   a) Interpret Relationship set.
(OR)
 b) Wrtite comparison between weak entity set and strong entity set.

12.   a) Explain naming rules and conventions.
(OR)
 b) Outline Personal database with an example.

13.   a) Write the syntax to add a new row/record in a Table with an example.
                                    (OR)
        b) Discuss restricting data with the where clause with an example.

14.   a) Write the block structure of PL/SQL with an example.
                                    (OR)
        b) Construct various looping statements used in PL/SQL.

15.   a) Write syntax for cursor with parameter used in PL/SQL with an example.

                                    (OR)
        b) Determine the various types of exception in PL/SQL.

SECTION – C   (5 X 5 = 25 MARKS)

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

16.   a)Sketch and explain the various types of Data Model with an example.
                                    (OR)
        b) Illustrate the five basic operators of relational algebra with an example.

17.   a) Summarize atomic and first normal form with an example.
                                    (OR)
        b) Analyze the DDL commands with an example.

18.   a) Summarize the various types of built in function used in SQL.
                                    (OR)
        b) Illustrate CASE STRUCTURE general syntax with an example.

19.   a) Determine how to perform join-set operations in multiple table by giving an example.
                                    (OR)
        b) Write a PL/SQL program to generate Fibonacci series

20.   a)Construct the syntax for trigger used with DML command and give an example
                                    (OR)
        b) Write the PL/SQL programs to create the procedure for factorial of given number.

                            ****