2011000101050002

First Year B.C.A (Sem-I)
EXAMINATION MARCH – 2023
Data Manipulation and Analysis (DMA)

Seat No:

Student's Signature

[Time: Three Hours]   **[Max. Marks:70]**

Q.1   Choose appropriate Correct Option. (Any ten)   **[20]**

1. How are rows in an Excel Worksheet labeled?
   A.   Alphabets   B.   Column Header
   C.   Numbers   D.   Address

2. On which place in worksheet, it shows the current cell address?
   A.   On standard Toolbar   B.   On status bar
   C.   On Address bar   D.   On properties window

3. Which symbol is required to start formula in worksheet?
   A.   +   B.   -
   C.   =   D.   = =

4. What does the graphical representation of data in spreadsheet is called?
   A.   Graphics   B.   Chart
   C.   Figures   D.   Pictures

5. Which worksheet function determines whether a condition is true or false?
   A.   If   B.   Sum
   C.   Count   D.   Max

6. What will be the output of =AND (10<12;54>25)?
   A.   TRUE   B.   FALSE
   C.   YES   D.   NO

7. Which is the short cut key for Paste command in worksheet?
   A.   Ctrl + B   B.   Ctrl + C
   C.   Ctrl + P   D.   Ctrl + V

8. Which is the short cut key for spelling check in worksheet?
   A.   F3   B.   F5
   C.   F7   D.   F1

9. What is the full form is CSV?
   A.   Common Separated Value   B.   Comma Special Value
   C.   Comma Separated Value   D.   Consolidate Separate Value

10. What does the intersection of row and column in worksheet called?
   A. Column
   B. Row
   C. Cell
   D. Formula

11. Workbook is the collection of _____?
   A. Worksheets
   B. Diagrams
   C. Buttons
   D. Menus

Q.2   Answer the following: (Any Two)   **[12]**

   a) Explain Data Independence in DBMS.
   b) Explain Super, Primary, Foreign and candidate Key with appropriate example.
   c) Explain SQL Scalar Functions

Q.3   Answer the following: (Any Two)   **(14)**

   a) What is Normalization? What do you mean by Anomalies, explain with example?

   b) Explain DBMS constrains with example.
   c) Explain DBMS components in detail.

Q.4   Answer the following: (Any Two)   **(14)**

   a) Explain DDL, DML & DQL commands with appropriate examples.
   b) Explain views of DBMS.
   c) Draw an ER Diagram for "College Management System".

Q.5   Solve following queries using SQL. (Any five)   **[10]**

   Consider the table to solve the queries.

   Employee (Emp_No, Emp_Name, Designation, Emp_City, Phone_No, Salary, Dept_No)

   1. Create specified table with appropriate constraints.
   2. Write a query to display Employee No, Designation and Salary.
   3. Write a query to count the no. of employee who are working as 'Manager'
   4. Write a query to display all employees whose salary is more than 20000.
   5. Display the employees whose name has first character as 'K' or 'A'.
   6. Display Department wise Total number of employees.
   7. Display employee details who are not from city 'Surat'.
   8. Update employee salary of all employees by 10% raise.

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