2311000901020021
B.C.A. (NEP) F.Y. (Semester – I)
Examination December-2023
Major-105-Data Processing And Analysis (DPA)

Seat No:

[Time: Two Hours]   [Max. Marks: 50]

Student's Signature

Q.1   Choose appropriate correct option. (Any ten)   10

1. How are column in worksheet labeled?
    A. Number   B. Alphabets
    C. Mix   D. None of Above

2. The cell that is currently is in use is called?
    A. Highlighted Cell   B. Main Cell
    C. Active Cell   D. Formula cell

3. What is IF, AND, OR, TRUE in worksheet called?
    A. Logical Formula   B. Arithmetic Formula
    C. Relational Formula   D. None of Above

4. Long text can be broken into many lines within a cell. You can do this through:
    A. Wrap Text   B. Text Combine
    C. Text broken   D. All of Above

5. Which of the following option used to copy the file with another name?
    A. Save   B. Save As
    C. Open   D. New

6. Which function is used to display current date with current time?
    A. =now()   B. =today()
    C. =datediff()   D. day()

7. Full form of .CSV
    A. Count Sum Value   B. Comma Separated Value
    C. Count Separated Value   D. None

8. How we can protect the worksheet?
    A. By giving File Name   B. By Giving Secret Code
    C. By Giving Password   D. None of Above

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9. In worksheet a formula should always start with _____ sign.
   A. =   B. +
   C. x   D. –

10. To display the same text appear on bottom side of all pages, which option is used?
    A. Merge   B. Header
    C. Footer   D. None of Above

11. Which cell address is used to make the cell address fixed.
    A. Relative Reference   B. Absolute Reference
    C. Mixed Reference   D. None of Above

12. Which option is used to lock header rows & columns in a worksheet?
    A. Quick Print   B. Page Preview
    C. Format Painter   D. Freeze Panes

Q.2   Answer the following: (Any 2)   **14**
   a) Explain various types of DBMS Architecture.
   b) Explain various types of Keys in detail.
   c) Explain the concept of Normalization. What are 1NF, 2NF & 3NF?
   d) What are Strong and Weak Entity? Explain strong entity set and weak entity set with appropriate examples.

Q.3   Answer the following: (Any 2)   **14**
   a) Write a note on DDL, DML and DQL commands.
   b) What is an attribute? Explain various types of attributes with proper examples.
   c) What is constrains? Explain the different types of constrains with example.
   d) Draw E-R diagram for "College Management System".

Q.4   Write an expression in SQL for the given table query. (Any Six)   **12**
   Employee (Emp_No, Emp_Name, Gender, Designation, Salary, Dept_no)
   1. Create given table with appropriate constraints.
   2. Write a query to display all employees whose name starts with letter 'M'.
   3. Write a query to list the details of all employees who is/are "Manager".
   4. Write a query to count total numbers of all employees of "Sales" department.
   5. Write a query to find the minimum, maximum and average salary of employees.
   6. Display total employees of 'Baroda' city.
   7. Add column 'Email_ID' in the table.
   8. Change the table name with new name "Staff".