

2011000101050002

B.C.A (Sem-I)

Examination November - 2022

Data Manipulation and Analysis (DMA)

Seat No:

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[Time: Three Hours]

[Max. Marks:70 ]

<b>Student's Signature</b>
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**Q.1 Choose appropriate Correct Option. (Any ten)**

**20**

- Which of the following is the example of absolute cell address?  
A. A5      B. \$A\$5      C. A\$5      D. A5\$
- The cell that is currently in use in spreadsheet is called?  
A. Highlighted Cell      B. Active Cell      C. Main Cell      D. Formula Cell
- IF, AND, OR, TRUE and FALSE are  
A. Logical Functions      B. Relational Functions      C. Text Functions      D. None
- In spreadsheet the concept used to merge selected cells into one single cell is called-  
A. Merge      B. Split      C. Join      D. Combine
- Which are the types of Vertical Cell Alignment?  
A. Left      B. Right      C. Center      D. All of above
- How we can protect the worksheet?  
A. By giving File name      B. By giving secret code  
C. By giving password      D. By giving different
- Which of the following option is used to see the preview of page?  
A. Page Preview      B. Format Painter  
C. Quick print      D. None of Above
- Which function returns the number of days between two dates based on 360 days per year?  
A. =days()      B. =days360()      C. =now()      D. =date\_diff()

9. Which worksheet function determines whether a condition is true or false?  
A. IF      B. SUM      C. Count      D. Max
10. To display the same text appear on upper side of all pages, which option is used?  
A. Font      B. Header      C. Footer      D. Merge
11. What does the intersection of row and column in worksheet called?  
A. Column      B. Row      C. Cell      D. Formula
12. Which option is used to break long text into multi-lines within single cell?  
A. Wrap Text      B. Text Combine      C. Text copying      D. None of the above

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

- a) Explain various types of Database Architecture.
- b) Explain various Keys with appropriate example.
- c) Explain Mapping Cardinality with an example.

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

- a) Explain various components of DBMS.
- b) What is normalization? Explain need of normalization with example. Also differentiate 1NF and 2NF.
- c) Explain Relational Model, Network Model and E-R model of DBMS.

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

- a) Explain DDL, DML & DQL commands with appropriate examples.
- b) Explain the various SQL data types of DBMS.
- c) Draw an ER Diagram for "Hospital Management System".

**Q.5      Solve following queries using SQL. (Any five)      10**  
Consider the table to solve the queries.

**Book\_Master(Book\_No, Book\_Title, Published\_Year, Pages, Price, Publisher\_Name)**

1. Create specified table with appropriate constraints.
2. Write a query to display all books that title starts with 'C' or 'P'.
3. Display year wise total number of books published.
4. Write a query to display total books published by publisher 'B.S.Shah'.
5. Display Book\_No, Book\_title and price for all books whose price is more than 1000.
6. Display all books having 'PROGRAMMING' in their titles.
7. Delete all books of 'BPP' publisher