

--	--	--	--	--

**[Max. Marks:70]**

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

1. In a spreadsheet, the block of cells is called  
A. Workbook B. Columns  
C. Rows D. Range
2. By default, a workbook has \_\_\_\_\_ worksheets  
A. 1 B. 2 C. 3 D. 4
3. Which function returns the number of days between two dates based on a 360 day per year?  
A. =days() B. =days360()  
C. =daysdiff() D. None
4. Auto-fill handle works in following direction.  
A. Downward B. Upward  
C. Right D. All of the above
5. Which of the following is used to fix the cell address in a formula?  
A. Relative reference B. Absolute reference  
C. Mixed reference D. None
6. Which of the following options is used to apply formatting from one formatted table to another?  
A. Quick Print B. Page Preview  
C. Format Painter D. Freeze Panes
7. IF, AND, OR, TRUE and FALSE are  
A. Logical Functions B. Statistical Functions  
C. Text Functions D. None
8. Which function is used to display current date only?  
A. TODAY() B. =NOW()  
C. Both A & B D. None of the above
9. Which function is used to count number of cell values based on some condition?  
A. =SUM() B. =COUNT()  
C. =COUNTIF() D. =SUMIF()

10. The graphical representation of data in spreadsheet is called  
A. Graphics    B. Picture    C. Charts    D. Figures
11. In the worksheet, which one is the valid range?  
A. B1-B5    B. B1:E5    C. B1 to E5    D. B1\$E5
12. In a spreadsheet, which function is used to get average?  
A. AVG    B. AVRG    C. AVERAGE    D. MEAN

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

- a) Explain Relational Model, Network Model and Hierarchical Model.
- b) Explain various Keys with appropriate example.
- c) Differentiate between 1-tier, 2-tier and 3-tier Database Architecture.

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

- a) Define Entity and Entity sets. Explain mapping cardinality with an example.
- b) What is Functional Dependency? Explain various types of functional dependencies with an example.
- c) Explain DDL & DML Statements with an example.

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

- a) What is Normalization? Explain up to 3rd Normal Form with an example.
- b) Explain View giving an appropriate example? What is the difference between View & Table?
- c) Construct an ER Diagram for Online Banking System.

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

Consider the table to solve the queries.

**Salesman\_Product** (Salesman\_No, Salesman\_Name, Salesman\_City, Product\_No, Product\_Name, Qty\_Sold, Rate\_Per\_Qty)

- 1. Display Salesman details selling 'Laptop'.
- 2. Display Salesman details in descending order of Qty Sold.
- 3. Display Salesman wise Total Qty Sold.
- 4. Display Product having Qty\_Sold >10.
- 5. Display Salesman records whose name starts with letter 'A' and last letter is 't'.
- 6. Update Rate of Product 'Printer' by +1500.
- 7. Display Salesman & Product Details of 'Valsad' City.