PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2023
(Third Semester)

Branch – COMPUTER TECHNOLOGY

DATABASE MANAGEMENT CONCEPTS

Time: Three Hours   Maximum: 50 Marks

SECTION-A (5 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (5 x 1 = 5)

1   A collection of conceptual tools for describing data, their relationships, semantics & constraints are called
    (i)   Data Models   (ii)   Data Storage
    (iii) Data Warehouse   (iv)   Data Mining

2   Which command used to display column names & their data types?
    (i)   SHOW   (ii)   DESCRIBE
    (iii) VIEW   (iv)   LIST

3   What constraint used to required values in one table to match with another table?
    (i)   CHECK   (ii)   UNIQUE
    (iii) FOREIGN KEY   (iv)   NOT NULL

4   Stored Procedures do not have -------
    (i)   Input arguments   (ii)   Output Values
    (iii) Return values   (iv)   None of these

5   Which type of Data Base is MongoDB?
    (i)   Relational DB   (ii)   Non – Relational DB
    (iii) Network DB   (iv)   Document Oriented DB

SECTION - B (15 Marks)
Answer ALL Questions
ALL Questions Carry EQUAL Marks   (5 x 3 = 15)

6   a) Classify the levels of abstraction in Data Base.
                OR
    b) State the purpose of normalization.

7   a) Narrate the UPDATE command with example.
                OR
    b) Organize the Built-in Data types in Oracle SQL.

8   a) Prepare a note for Logical Operations in SQL.
                OR
    b) How to Create Indexes in Interact SQL? Explain.

9   a) Show how to create Stored Functions in SQL.

OR

b) Summarize the types of Triggers.

10   a) Point out the features of MongoDB. Summarise different features of MongoDB.

OR

b) State that how can execute 'Batch Insert' in MongoDB.

SECTION -C (30 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks   (5 x 6 = 30)

11 a) Illustrate the Data Base Architecture in detail.

OR

b) Elucidate the Entity-Relationship model of Data Base.

12 a) Highlight the DML Commands with example In Oracle SQL.

OR

b) Examine the creation of Two-Dimensional Matrix in Oracle.

13 a) Infer how the Pattern Matching is performed in SQL.

OR

b) Analyze the purpose of creation of Views.

14 a) Specify how the Functions are used in Applications.

OR

b) Examine how the Triggers are triggered while modifying Data Base.

15 a) Summarize the Data Bases in MongoDB in detail.

OR

b) Enumerate Type Specific Queries in MongoDB.

Z-Z-Z   END