PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BVoc DEGREE EXAMINATION MAY 2024
(Third Semester)

Branch – NETWORKING AND MOBILE APPLICATION

DATA BASE DESING & DEVELOPMENT

Time: Three Hours   Maximum: 50 Marks

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

1   Which of the following is not a type of database?
     (i) Hierarchical   (ii) Network
     (iii) Decentralized   (iv) Distributed

2   Which command is used to remove a relation from an SQL?
     (i) Drop table   (ii) Purge
     (iii) Delete   (iv) Remove

3   _____ operations do not preserve non-matched tuples.
     (i) Left outer join   (ii) Inner join
     (iii) Natural join   (iv) Right outer join

4   Functional Dependencies are the types of constraints that are based on_____.
     (i) Key   (ii) Superset key
     (iii) Key revisited   (iv) None of the above

5   Which of the following format is supported by MongoDB?
     (i) SQL   (ii) BSON
     (iii) XML   (iv) None of the above

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

6   a   Write about the advantages and disadvantages of DBMS.
                              OR
     b   Brief about Relational keys.

7   a   Discuss about the aggregate functions in SQL.
                              OR
     b   Explain about sub queries.

8   a   Write about view resolution.
                              OR
     b   What is meant by cursors? Explain.

9   a   How normalization supports database design? Explain.
                              OR
     b   Briefly explain about structural constraints.

10   a   What is MongoDB and write its usage?
                              OR
     b   Explain about $where queries.

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

11 a   Explain in detail about database languages.
                              OR
   b   List out and explain the properties of relations.

12 a   What are SET operations? Explain with example.
                              OR
   b   Explain about Aggregation and grouping operations.

13 a   How to create a Database and Table? Explain.
                              OR
   b   Inline and clarify the Triggers.

14 a   Explain about strong and weak entity types.
                              OR
   b   What is meant by Functional dependencies? Explain with example.

15 a   Write about the data types in MongoDB. Explain.
                              OR
   b   Discuss about Removing and Updating documents in MongoDB.

                    Z-Z-Z   END