

B.C.A. (Part-II) Semester-III (Old) Examination**DATABASE MANAGEMENT SYSTEM****Paper-3ST3**

Time : Three Hours]

[Maximum Marks : 60

Note :— (1) All questions are compulsory.

(2) Assume suitable data wherever necessary.

1. (A) Explain the Architecture for Database System with neat diagram. 6
- (B) What is Database Model ? Explain with Network Database Model. 6

OR

2. (A) What is DBMS ? Give its various advantages and disadvantages. 6
- (B) Explain the following with examples : 6
 - (i) Referential Integrity
 - (ii) Data Integrity
3. (A) What are Relational Algebra and Relational Calculus ? Explain with one example of each. 6
- (B) Explain 1NF, 2NF, 3NF with suitable example. 6

OR

4. (A) What are Functional Dependencies ? Explain with various types. 6
- (B) What is Relational Model ? Explain with the concept of Relation and Keys. 6
5. (A) Explain Order by and Group by Clauses with proper example. 6
- (B) What are the components of SQL ? Explain with proper example. 6

OR

6. (A) Explain :
 - (i) DROP
 - (ii) DELETE
 - (iii) UPDATE 6
- (B) Explain the different Data-types in SQL. 6
7. (A) Explain the following functions with the help one example of each : 6
 - (i) UPPER ()
 - (ii) SUBSTR ()
 - (iii) MIN ()
 - (iv) SUM ()
 - (v) FLOOR ()
 - (vi) LEAST ()
- (B) What is Join ? Explain Equi-Join with suitable example. 6

OR

8. (A) Explain Union and Union-All with suitable example. 6
(B) Explain any four Numeric Function with suitable example. 6
9. (A) Explain different Data-types used in PL/SQL with suitable example. 6
(B) What is TRANSACTION ? Explain SET TRANSACTION and COMMIT TRANSACTION. 6
- OR**
10. (A) What is PL/SQL ? Explain with Control Structure in detail. 6
(B) Explain Declaring, Opening and Fetching Cursor with suitable example. 6