2316   **45**

Class – B.Sc. (IT) Sem-IV
Subject – Database Management System and Oracle
Paper – I

Time Allowed : 3 Hours   **Maximum Marks : 75**

Note:- Attempt any 5 questions.

1. What do you mean by DBMS? Explain its advantages and disadvantages   15

2. (a)   Explain the following terms :

   (i) Data (ii) Fields (iii) Record (iv) Domain

                                                    $(4 \times 2 = 8)$

   (b)   Describe the responsibilities of DBA.   7

3. Explain the different levels of database system architecture including schemas and mappings.   15

4. Give comparison of Relational, Hierarchical and Network Model.   15

5. Explain the different keys used in a relational system i.e.

   (i) Primary key (ii) Foreign key (iii) Candidate key (iv) Super key (v) Artificial key. $(5 \times 3 = 15)$

6. (a)   What is SQL? Describe different parts of SQL.

                                                    8

   (b)   Explain the SQL command CREATE TABLE with example.   7

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7. Explain the various Join methods with examples. 15

8. (a) What are views? Give their advantages. 8

(b) Explain the use of UNION, INTERSECTION and MINUS set operators in sub queries. 7

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