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Exam. Code : 404402 Subject Code : 5651

Diploma in Computer Application (Full Time) 2<sup>nd</sup> Semester

# **DATABASE MANAGEMENT SYSTEM**

### Paper-I

Time Allowed—Three Hours] [Maximum Marks—50

Note :— Attempt *five* questions by selecting at least *one* question from each Section.

# SECTION-A

- Define DBMS. Discuss various components of DBMS. What are the advantages of using DBMS ? 10
- Explain the relational model for data retrieval in DBMS. Explain its advantages and disadvantages as compared to hierarchical approach.
  10

### SECTION-B

- 3. (a) What is an expert system ? What are its advantages ? Discuss its main features.
  - (b) What are the methods used for database security and protection ? 5,5
- 4. (a) Why database integrity and concurrency is important ?
  - (b) What is SQL ? Discuss DDL, DCL and DML commands (three each) of SQL \* PLUS. 5,5

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# SECTION-C

- 5. (a) Explain object oriented features of Oracle 10g.
  - (b) Explain the following w.r.t. SQL \* PLUS : Join methods, Union, Minus. 5,5
- 6. (a) What are the views in database ? What is their role in DBMS ?
  - (b) Explain briefly the following :
    - (i) Tree Walking and Sub Query
    - (ii) Built-in functions of SQL \* PLUS in Oracle10 g. 5,5

#### SECTION-D

- 7. (a) What is the relationship between SQL and PL/SQL ? What are the advantages of using PL/SQL ? How variable declaration takes place in it ?
  - (b) How cursors are used in PL/SQL ? 6,4
- 8. (a) Define procedure and functions. How these are created and executed ? What are their advantages ?
  - (b) What is a trigger ? Explain various types of triggers. 6,4

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