

B.C.A. (Part—II) Semester—III Examination
3ST3 : DATA BASE MANAGEMENT SYSTEM

Time : Three Hours]

[Maximum Marks : 60

Note :—(1) All questions are compulsory.
(2) Assume suitable data wherever necessary.

1. (A) Explain the architecture of Database Management System. 6
(B) Explain :
(i) Data Abstraction
(ii) Data Integration. 6

OR

2. (A) What is DBMS ? Explain the component DBMS. 6
(B) What is Data Independence ? Explain physical and logical data independence. 6
3. (A) What is attributes ? Explain types of attribute with suitable example. 6
(B) What is normalization ? Explain 1 NF, 2 NF, 3 NF with example. 6

OR

4. (A) Explain the reduction of ER diagram to table. 6
(B) Explain the following terms :
(i) Primary key
(ii) Candidate key
(iii) Foreign key. 6
5. (A) Explain different data types in SQL. 6
(B) What is Operator ? Explain EXISTS and LIKE operator with suitable example. 6

OR

6. (A) What is DML ? Explain different types of DML commands. 6
(B) What is View ? Explain how View can be created and dropped. 6
7. (A) What is Join ? Explain types of Joins. 6
(B) Explain Group functions with example. 6

OR

8. (A) Explain self join with example. 6
(B) Explain set operations :
(i) Union
(ii) Cross Product
(iii) Difference
(iv) Intersection. 6
9. (A) Explain different data types of PL/SQL. 4
(B) What is Cursor ? Explain cursor declaration, cursor opening and cursor fetching. 8

OR

10. (A) Explain PL/SQL Block with all sections. 6
(B) Explain While Loop in PL/SQL with example. 6