

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

Time : Three Hours]

[Maximum Marks : 60

N.B. :— (1) All questions are compulsory.

(2) Assume suitable data whenever necessary.

1. (A) Explain components of DBMS in detail. 6
(B) Which are different database models ? Explain relational model and its advantages. 6

OR

2. (A) What is DBMS ? Explain its features and necessity. 6
(B) Explain Architecture of DBMS. 6
3. (A) Explain Entity-Relationship model with suitable example 6
(B) Explain primary and foreign keys with example. 6

OR

4. (A) What is Normalization ? Explain 1NF, 2NF, 3NF. 6
(B) Explain following :
(i) Relation
(ii) Domain
(iii) Attributes. 6
5. (A) Explain data types in SQL with example. 6
(B) What are DML commands ? Give syntax and explain each with example. 6

OR

6. (A) Explain 'order by' clause with example. 6
(B) Explain DDL commands with their syntax and suitable example. 6
7. (A) Explain Joins in detail with examples. 6
(B) Explain following functions with example :
(i) ABS
(ii) CEIL
(iii) TRUNC
(iv) LOG
(v) EXP
(vi) LEAST 6

OR

8. (A) Explain any three group functions with examples. 6
(B) Explain any three character functions with example. 6
9. (A) Explain control structure in PL/SQL with example. 6
(B) Explain following with example :
(i) Commit
(ii) Save point
(iii) Roll back. 6

OR

10. (A) Explain PL/SQL Block structure with suitable example. 6
(B) What is cursor ? Explain its types with suitable example. 6