

B.C.A. (Part-II) Semester-III Examination

DATABASE MANAGEMENT SYSTEM

Paper – 3 ST 3

Time : Three Hours]

[Maximum Marks : 60

- N.B. :-** (1) **ALL** questions are compulsory.
(2) Assume suitable data wherever necessary.

1. (a) Explain Architecture of DBMS. 6
- (b) What are data models ? Explain network database model in detail. 6

OR

2. (a) What is DBMS ? Explain its advantages and disadvantages. 6
- (b) Explain Abstraction and Data Integration. 6
3. (a) Explain Primary Key and Foreign Key. 6
- (b) What do you mean by functional dependency ? Explain with example. 6

OR

4. (a) What is E-R diagram ? Explain various symbols used in it. 6
- (b) What is normalization ? Explain 1 NF. 6
5. (a) Explain Group BY and Having clause with example. 6
- (b) What is operator ? Explain EXIST and LIKE operator with example. 6

OR

6. (a) What is DDL command ? Explain ALTER and CREATE command. 6
- (b) Explain order by clause with example. 6

7. (a) Explain Joins and Union with example of each. 6
- (b) Explain following functions with the help of an example :
- (i) UPPER
 - (ii) INSTR
 - (iii) LPAD
 - (iv) MIN
 - (v) COS
 - (vi) TRUNC. 6

OR

8. (a) Explain following functions with help of an example :
- (i) LOWER
 - (ii) LENGTH
 - (iii) RPAD
 - (iv) GREATEST
 - (v) CEIL
 - (vi) SIGN. 6
- (b) Explain following conversion functions with example of each :
- (i) TO-NUMBER
 - (ii) TO-CHAR 6
9. (a) Explain features of PL/SQL with its block structure. 6
- (b) What is cursor ? Explain various attributes of cursor. 6

OR

10. (a) Explain constant and variables with one example of each. 4
- (b) What is transaction ? Explain Rollback segment, COMMIT and AUTO COMMIT with example. 8