

AU-198

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

DATABASE MANAGEMENT SYSTEM

Paper—3ST3

Time : Three Hours]

[Maximum Marks : 60

Note :— (1) All questions are compulsory.

(2) Assume suitable data wherever necessary.

1. (A) Explain Architecture of Database system. 6
- (B) Explain Relational, Hierarchical and Network database models. 6

OR

2. (A) Which are various database users ? Explain role of DBA. 6
- (B) Explain Data Abstraction and Data Integration. 6
3. (A) Which are different Anomalies and how can they be overcome with normalization ? Explain. 6
- (B) Explain Entity- Relationship model and various symbols used in E-R diagram. 6

OR

4. (A) What is Normalization ? Explain BCNF. 6
- (B) Explain the following :
 - (i) Attributes
 - (ii) Functional Dependency
 - (iii) Relation. 6
5. (A) Explain 'GroupBy' and 'Having' clause with example. 6
- (B) Explain components of SQL. 6

OR

6. (A) Explain 'view' in SQL with example. 6
 (B) Explain DML commands with examples. 6
 7. (A) Explain Union and Union-All with example. 6
 (B) Explain any six Numeric functions with example. 6

OR

8. (A) Explain the following with examples :
 (i) LTRIM (ii) RPAD (iii) SOUNDIX
 (iv) DECODE (v) TO-NUMBER (vi) TO-CHAR 6
 (B) Explain the following with example :
 (i) AVG (ii) MAX (iii) MIN
 (iv) SUM (v) COUNT (vi) EXP 6
 9. (A) Explain features of PL/SQL with its Block structures. 6
 (B) Explain cursor with its attributes. 6

OR

10. (A) Explain the following :
 (i) Commit (ii) Autocommit (iii) Rollback 6
 (B) Explain constants and variables in PL/SQL with suitable example. 6