SIVS 191 A-2K13
B.Sc. IVth Semester Degree Examination
Computer Science
(Data Base Management System)
Paper - CS - 401

Time : 3 Hours
Maximum Marks : 80

Instructions to Candidates.
Section B and C answer should be descriptive type.

Section - A

I. Answer all.
   (1×15= 15)

1) What is a database?
2) What is data model?
3) Define entity.
4) What is a tuple?
5) What is Normalization?
6) What is foreign key?
7) Define degree of relation
8) What is encryption?
9) Mention any two DBMS packages
10) What is relational schema?
11) Define data fragmentation
12) Write syntax for DELETE command
13) Write an Example for Union Set operation
14) What is 1NF?
15) Define database security.

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(1)

[Contd....]
Section - B

II. Answer any five  

16) With a neat labelled diagram explain the three - level architecture of DBMS

17) Explain BCNF

18) Explain the relational model concepts.

19) What is E-R model? Explain

20) Explain concurrency control techniques.

21) Explain 4NF.

22) Explain DDL and DML statements with example.

Section - C

III. Answer any four

23) Discuss advantages and disadvantages of DBMS.

24) Explain the following SQL commands.
   a) CREATE
   b) INSERT
   c) DELETE
   d) ALTER
   e) UPDATE


26) Explain the notations used by the designer in ER diagram in detail.

27) Explain database security and authorization

28) Explain domain relational calculus in detail.