

Roll No. _____

[Total No. of Pages : 2

SIVS 187 A-2K14
B.Sc. IVth Semester Degree Examination
Computer Science
(Database Management System)
Paper - 401

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SHRI M. S. CHENNAI
COMMERCE & COLLEGE
BIDAR - 585 401

Time :3 Hours

Maximum Marks : 80

Section - A

I. Answer all questions:

(15×1=15)

- 1) What is DBMS?
- 2) Mention Database Languages.
- 3) What is candidates key?
- 4) Who are Narial Users?
- 5) What is attribute?
- 6) What is instance?
- 7) Write any two advantages of DBMS.
- 8) Define data independence.
- 9) What is domain?
- 10) Write a general syntax of CREATE command in SQL.
- 11) What is normalization?
- 12) Write any two group functions in SQL.
- 13) What is entity set?
- 14) What is database recovery?
- 15) What is meta data?

Section - B

II. Answer any **five** of the following:

(5×5=25)

- 16) Briefly explain characteristics of database.
- 17) Explain Network model with its advantages and disadvantages.
- 18) Explain database security and authorization.
- 19) What is view? How to create a view give an example.
- 20) Write a note on design issues and naming conventions of ER-diagram.
- 21) Explain three-level architecture of DBMS.
- 22) Write a note on relational calculus.

Section - C

III. Answer any **four** of the following:

(4×10=40)

- 23) Write a note on users of DBMS.
- 24) Explain Enhanced ER-Model.
- 25) Write any five relational algebra operations with examples.
- 26) Explain 1NF and 2NF with example.
- 27) Create a table

Student (Rno, Sname, Combination, Class, Fees, Result).

Implement the following queries.

- a. Retrieve the information of students whose result is 'pass'.
 - b. Find the minimum fees in above table.
 - c. Update the student table set combination = PMcs whose combination is CBZ.
- 28) Write a note on concurrency control techniques.