LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – **STATISTICS**

FIFTH SEMESTER – NOVEMBER 2007

ST 5403 - DATABASE MANAGEMENT SYSTEMS

BB 18

Date : 06/11/2007   Dept. No.   Max. : 100 Marks
Time : 9:00 - 12:00

SECTION A

Answer ALL the questions.   **(10x2=20)**

1. Define a Record? Give an example.
2. What are the unique characteristics of MEMO type data fields?
3. State the importance of 'SET CONFIRM ON' command
4. How RECORD Number is prevented from display in FOXPRO? Explain.
5. Write a FOXPRO statement which deletes next 5 records from current record.
6. How records are permanently removed? Explain by an illustration
7. Write appropriate FOXPRO statements which sorts the database MASTER.DBF on ID field and stores the sorted data in MASTERID.dbf
8. What are the information contained in DBMS about a particular enterprise?
9. Define *'Schema'* and *'Instance'* in DBMS
10. Explain **Data-Cube** by giving an example

SECTION B

Answer any FIVE questions.   **(5x8 = 40)**

11. Explain the advantages of enforcing Referential Integrity by an illustration.
12. What is indexing ? Explain how it is achieved using INDEX command with example
13. The database file SCORE.DBF contains a field 'X' with 5, 3, 6, 7, 8, 1, as its values. Write a FOXPRO program to find MEAN and RANGE
14. The INVESTMENT.dbf database file contains the fields ID, INVEST1, INVEST2, and INVEST3. Write a FOXPRO program which prepares a detail list of top-10 potential investors in terms of their Total Investments.
15. How does a function differ from a procedure? Explain by an illustration.
16. Explain the following built-in functions : a] ROUND( ) b] INT( ) c] EXP
17. Explain any three major drawbacks of using file systems to store data
18. What are the tasks and issues for which the storage manager is responsible?

SECTION C

Answer any TWO questions.   **(2x20=40)**

19. a] Explain the advantages of using DataBase Management System over conventional data management

   b]Write any five major components of a DBMS? Explain each of them in detail.

20. Create a database file BIVARIATE.dbf and enter the following values of fields X and Y:

   X : 68   67   78   45   56   78   89   89

   Y : 75   78   82   56   67   79   90   98

   Write a progra in FOXPRO to compute correlation co-efficient and hence
   construct the Regression equations.

21. a] What is a Cursor? Explain Static cursor by an illustration.

   b] Explain i] Select operation ii] Union operation with example

22. a] What are **Decision Support Systems?** Explain its various components

   b] Explain the implementation any two aggregate functions in Select SQL
      statement with example

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