

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2009– 10 & thereafter)

SUBJECT CODE: CS/PC/DB14

M.Sc. DEGREE EXAMINATION, NOVEMBER 2010
INFORMATION TECHNOLOGY
FIRST SEMESTER

COURSE : CORE

PAPER : DATABASE SYSTEMS

TIME : 1½ HOURS

MAX. MARKS: 50

SECTION - A

(5 x 2 = 10 MARKS)

Answer ALL questions:

1. What is a weak entity set?
2. What is the purpose of indexing a database?
3. Give two examples of integrity constraints.
4. Write down the steps in query processing
5. What is a transaction?

SECTION - B

(4 x 5 = 20 MARKS)

Answer any FOUR questions:

6. Describe database system architecture.
7. Draw an ER Diagram for hospital management system.
8. Discuss any five Aggregate functions from SQL.
9. Explain the advantages and disadvantages of cursors
10. Give an example for Object Oriented data model.
11. Explain BCNF with an appropriate example.

SECTION - C

(2 x 10 = 20 MARKS)

Answer any TWO questions:

12. An online book store database has the attributes Title, Author , Author Biography , ISBN , Price , Subject , Number of Pages , Publisher , Publisher Address , Description , Review , Reviewer Name . Normalize the data.
13. Explain the usage of Triggers in database applications.
14. What is a Distributed Database? Explain the system.
