

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086**  
**(For candidates admitted during the academic year 2011 – 12 and thereafter)**

**SUBJECT CODE: 11CS/PC/DB14**

**M.Sc. DEGREE EXAMINATION, NOVEMBER 2013**  
**INFORMATION TECHNOLOGY**  
**FIRST SEMESTER**

**COURSE : MAJOR CORE**  
**PAPER : DATABASE MANAGEMENT SYSTEM**  
**TIME : 1 ½ HOURS**

**MAX. MARKS: 50**

**SECTION – A**

Answer **ALL** the questions

**(5 \* 2 = 10 Marks)**

1. Define the term instance and schema.
2. What are views?
3. Explain the structure of HAVING clause.
4. What is data fragmentation? Give an example of each type.
5. Write note on any two pre-defined exceptions.

**SECTION – B**

Answer any **FOUR** questions

**(4 \* 5 = 20 Marks)**

6. Explain various levels of data abstraction.
7. Explain in detail about keys with examples.
8. Explain any two ability of nested sub query.
9. What is a trigger? Explain with an example.
10. Differentiate between procedures and functions.
11. Write note on data replication and abstract data types.

**SECTION - C**

Answer any **TWO** questions

**(2 \* 10 = 20 Marks)**

12. Explain in detail about normalization with various normal forms up to BCNF.
13. Describe various types of joins with an example.
14. Discuss concurrency control in distributed database.

\*\*\*\*\*