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Sr. No. 3061

Exam.Code:105704 Subject Code : 1586

B.Sc. Information Technology - 4th Sem.

(2518)

Paper: I

Database Management System

Time allowed: 3 hrs.

Max. Marks: 75

Note: Attempt any five questions. All questions carry equal marks. The students can use only non-programmable and non-storage type calculator.

Q1.	What do you mean by DBMS? What are various components of DBMS? Discuss in detail.	15
Q2.	Elaborate the three-level architecture of database system? Why we need mappings between the levels? Briefly discuss the components of a DBMS.	15
Q3	Discuss in detail the entity relationship model with the help of suitable examples.	15
Q4.	What is Normalization? Why we need to normalize databases? What are its advantages? Explain giving examples.	15
Q5.	What are the problems arising out of concurrent data access? How concurrency is managed?	15
Q6.	What are various DDL commands available in SQL? Explain any 5 commands in detail with their purpose and syntax.	15
Q7.	What are Cursors? Differentiate between implicit and explicit cursors. Give examples of Implicit and explicit Cursors.	15
Q8	What does trigger mean? What are its uses and explain its working? Compare database triggers and procedures.	15

3.6

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