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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech IV Year I Semester Regular & Supplementary Examinations Feb-2021

DATABASE MANAGEMENT SYSTEMS

(Common to All)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

1 Explain about integrity constraints over relations. 12M

OR

2 a Explain about Views of data. 6M

b Explain about various data models. 6M

UNIT-II

3 a Illustrate different operations in Relational algebra with an example. 8M

b Explain about triggers and active databases. 4M

OR

4 a Identify relational database query. 6M

b Distinguish GROUP by and HAVING clauses with examples. 6M

UNIT-III

5 a Illustrate redundancy and the problems that it can cause. 6M

b Explain about Functional Dependency. 6M

OR

6 a What is Normalization? List out the purpose normalization. 5M

b Outline the terminologies: Partial Dependency, Transitive Dependency, Determinant, MVD, Join Dependency 7M

UNIT-IV

7 a Discuss different phases (states) of transaction. 6M

b Define Schedule? What is a serial schedule. 6M

OR

8 a Define a Transaction? List the properties of transaction. 6M

b Write briefly about serializability with example. 6M

UNIT-V

9 a Discuss about file organizations and indexing. 6M

b Explain about Index structures. 6M

OR

10 a Discuss about static hashing. 6M

b Explain about Extendible hasing. 6M

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