3030

B. Tech 3rd Semester (CSE) Examination – December, 2019

DATABASE MANAGEMENT SYSTEMS

Paper: PCC-CSE-201-G

Time: Three Hours].

[Maximum Marks: 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

- Note: Attempt five questions in all, selecting at least one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.
 - **1.** (a) What are the Components of DBMS? $2.5 \times 6 = 15$
 - (b) Discuss Security issues involved in database design.
 - (c) What is Cascade rollback?
 - (d) What do you mean by insertion anomaly?
 - (e) What is lossless decomposition? Give an example.

What is referential integrity constraint?

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UNIT - I

Differentiate	between	DBMS	and.	file	processing		
	* 3						15
 system.			<u>.</u>			1	

3. Describe the various views of data.

15

UNIT - II

- 4. (a) Explain the different approaches used for designing relational database.7.5
 - (b) Why normalization is required? Explain 1NF, 2NF, 3NF and BCNF with example. 7.5
- 5. What are the steps involved in query processing?
 Why query processing are to be optimized? Show with an example how queries are optimized.

UNIT - III

- 6. Give an example to depict the time stamp based method for handling concurrently running transactions.
- 7. (a) Explain Concurrency control in distributed database system.7.5

(D)	what is difference between hash	ing and
	indexing?	7.5
	UNIT – IV	
8. (a)	Explain briefly the database security for	integrity
	of database.	7.5
(b)	Explain web database.	7.5
9. (a)	List and discuss the different issues re	elated to
	database security.	7.5
(b)	What is data warehouse and its usage?	7.5

AB -9C