5E5044

Roll No.

|Total No. of Pages :

5E5044

B.Tech. V Semester (Main/Back) Examination, Nov./Dec. - 2017 Electrical & Electronics Engineering. 5EX4A Database Management System

Common With EE

Time: 3 Hours

Maximum Marks: 80

Min. Passing Marks : 26

# Instructions to Candidates:

Attempt any five questions, selecting one question from each unit. All Questions carry equal marks: (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly). Units of quantities used/calculated must be stated clearly.

# Unit - I

- 1. a) What is DBMS? What are the need and goals of DBMS.
  - b) Explain relational data model in detail. (8)

#### OF

- 1. a) What is the concept of ER diagram? Differentiate between Entity sets and Relationship sets. (8)
  - b) Explain primary, foreign and candidate key in detail. (8)

### Unit - II

- 2. a) What do you mean by functional dependency?
  - b) Differentiate between primitive and composite datatype. (8)

#### OR

- 2. a) What is Normalization? Explain Boyce-codd normal form and 3 NF in detail.(8)
  - b) Explain the concept of physical and logical databases in detail. (8)

#### Unit - III

- 3. a) Differentiate the functionality of SQL and dynamic SQL. (8)
  - b) What is JDBC? Explain in detail. (8)

(8)

(8)

3.	a)		
		i) Triggers ii) DDL	
		iv) Database Mirroring	
	b)	s i for form management and rep	ort writing: (8)
		Unit - IV	80 81
4.	a)	What is RDBMS? Why is it called relational database?	(8)
	b)	Explain multilist structures in detail.	(8)
		OR	1
4.	a)	What are indexes in SQL? Explain Non-clustered index in detail	(8)
	b)	What are random and hashed files?	(8)
		Unit - V	
5.	a)	What is Serializability? Explain conflict and views serializability	in detail. (10)
	b)	What is data concurrency?	(6)
	-,	OR	
5.	Wei	ite short note on (Any 2):	$(2\times8=16$
5.			
	a)	Transaction management	
	b)	Deadlock handling	
	c)	Recovery techniques in database.	
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Á.		Recovery techniques in database.	