Code: 15CS33T

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## III Semester Diploma Examination, Oct./Nov.-2019

## **DATABASE MANAGEMENT SYSTEMS**

DATABASE MANAGEMENT STSTEMS					
Time: 3 Hours ] [ Max. Mark	[ Max. Marks : 100				
Instructions: (i) Answer any six questions from Part – A, each question carries 5	marks.				
(ii) Answer any seven full questions from Part – B, each question marks.	carries 10				
PART – A					
1. Define Database. List the responsibilities of the Database Administrator.	5				
FOXY ORO	5				
2. Explain the different types of End Users.					
BETA CONSOLE					
3. Define Data Independence. Explain different types of it.	5				
4. Explain the characteristics of relation.	5				
4. Explain the characteristics of relation.					
5. Explain key constraint with an example.	5				
6. Explain the different datatypes supported by SQL.	5				
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7. Define view. How to crate it? Give example.	5				
8. Explain Second Normal Form with an example.	5				
9. Explain the Desirable properties of a transaction.	5				
7. Explain the Desirable properties of a transaction.					

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## PART - B

10 10. List and explain the important characteristics of Database approach. Identify the entities, relationships and develop an E-R diagram for a company 10 database. 10 Explain the different phases of Database design with a neat diagram. 10 13. Define the following terms with an example. **Domain** (i) (ii) Attribute (iii) Tuple Relation schema Relation (v) 10 Consider the following schema and write the SQL queries: EMPLOYEE (Fname, Minit, Lname, SSn, Bdate, Address, sex, Salary, Super-SSn, Dno) DEPARTMENT (Dname, Dnumber, Mgr\_ssn, Mgr\_start\_date) Retrieve the First & last name of all employees who works in C S Dept. (i) Find the Sum of the Salaries of all employees. (ii) (iii) Sort the tuples of EMPLOYEE table by First name. (iv) Retrieve the details of employees who are working in DNO 2 and Drawing Salary more than or equal to 15000. (v) Retrieve the total no. of employees in each department.

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	Expl	ain the following commands / clause with example:	10
	(i)	Insert	
	(ii)	Delete	
	(iii)	Order by	
	(iv)	Group by	
	(v)	Drop	
6.	Exp	plain the informal design Guidelines for Relational Schema.	10
17.	Exp	plain First Normal Form and Third Normal Form with example.	10
18.	Ex	plain the Advantages and disadvantages of Distributed Computing.  FOXY ORO  at and explain the different categories of NOSQL.	10
		BETA CONSOLE	