BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (MID SEMESTER EXAMINATION)

CLASS: BE BRANCH: EEE SEMESTER: VII SESSION : MO/2018

SUBJECT : CS4205 DATABASE MANAGEMENT SYSTEM

TIME:		1.5 HOURS	FULL MARKS: 2	FULL MARKS: 25	
IN 1. 2. 3. 4. 5.	STRU The Canc In th Befo The	ICTIONS: total marks of the questions are 30. didates may attempt for all 30 marks. lose cases where the marks obtained exceed 25 ma re attempting the question paper, be sure that you missing data, if any, may be assumed suitably.	rks, the excess will be ignored. have got the correct question paper.		
Q1	(a) (b)	Discuss the main characteristics of database app file systems. Explain the functions of a Database Administrator	oach and how it differs from traditional (DBA).	[3] [2]	
Q2	(a) (b)	Briefly discuss the Database Models. Construct an E-R diagram for a Car Insurance Co which owns a number of cars. Each car has numb it. Illustrate all the essential features.	mpany with a set of customers, each of er of recorded accident associated with	[2] [3]	
Q3	(a) (b)	Explain the concepts of Generalization & Speciali What is Aggregation? Explain.	zation with appropriate examples.	[3] [2]	
Q4	(a) (b)	Explain any three Relational Algebraic Operators. Briefly discuss the Integrity rules of a Relational D	atabase Model.	[3] [2]	
Q5	(a) (b)	Define the following: Primary Key, Candidate Key Briefly explain the DDL and DML functions.	and Alternate Key.	[3] [2]	
Q6		Consider the following relations and write the SQ queries: BRANCH (Branch_Name, Branch_City, Assets) CUSTOMER (Customer_Name, Customer_Street, C ACCOUNT (Account_No., Branch_Name, Balance) LOAN (Loan_No., Branch_Name, Amount) BORROWER (Customer_Name, Loan_No.) DEPOSITOR (Customer_Name, Account_No.) i) Find the names of all customers, who live in " ii) Find the names of all customers, who have a la iii) Find the names of all customers, who have a la	- expressions equivalent to the following ustomer_City) DELHI". Dan at the "DELHI" branch. her a loan or an account at the bank.	[5]	

:::::: 12/09/2018 :::::M