

Continuous Assessment Test (CAT) – I - FEB 2024

Programme	:	B.Tech. CSE and its specialization	Semester	Winter 2023-24
Course Code & Course Title	:	BCSE302L / Database Systems	Slot	D1+TD1
Faculty	:	Dr. Jenila Livingston L M Dr. Balasundaram A Dr. Amrit Pal Dr. Leninisha Shanmugam Dr. Abishi Chowdhury Dr. Sandhya	Class Number	CH2023240501571 CH2023240501561 CH2023240501565 CH2023240501567 CH2023240501563 CH2023240501560
Duration	:	1 Hr 30 Mins	Max. Marks	50

Answer all questions

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	Q. No	Sub Sec.	Description	Marks	
Annual Control of the	1	Sec.	Suppose you have a university database with the following entity sets: College(College_ID, College_Name, School_ID) School (School_ID, School_name, Faculty_ID) Student (Student, Course_name, Course_code, Faculty_ID) Faculty (Faculty_ID, Faculty_Name, Phone_no, Email) For the given scenario, explain how the tuples will be organized using any two data models. [4*2=8 marks] Note: Do not consider ER/EER models for answering this question.	8	
	2		Consider the following ER diagram. Convert it into its equivalent relational model. Semester Takes Course Done by Date Prolect Student Prolect Regno Address	8	

Perform all the specified operations over the three relations given using SQL queries: Employee MATHEM Primary Rey EMPID Primary Rey EMPID Not Null, should start with "Mr. Not Pill perform a start of the start of th				relations given using SQL	
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5	a	Given a relation R (C,U,S,T,O,M) with the following eight functional dependencies: F: {CU → S; T → OM; S → C; UO → S; US → T; SM→ UT; CST → U; SO → CM}. For the following statements, decide whether they are true or false and also justify your answer with a proper explanation. i) The closure of 'US' is {C, T, O, M} (1 mark) ii) 'CUS' is a super key of 'R' (1 mark) iii) 'US' is a candidate key of 'R' (2 marks) iv) We can derive a new functional dependency 'CUS->TO' from F (1 mark) v) The closure of 'SO' covers >=5 attributes and 'T' covers <=3 attributes (1 mark) vi) US → T is a trivial dependency (1 mark)	12	
	ь	Find the minimal cover of F (5 marks)		
