Continuous Assessment Test (CAT) - I - FEB 2024

		M. Tech CSE with			
Programme	:	Specialization in Business Analytics(integrated)	Semester	*	Winter 2023-24
Course Code &		SWE1004			CITOCOCC
Course Title		Database Management Systems	Class Number	;	CH2023240502516, CH2023240502517
Faculty		Dr. Sivabalakrishnan M			C112023240302317
,		Dr. Rishikeshan C A	Slot	:	A1+TA1
Duration	:	90 minutes	Max. Mark		50
General Instruc	tior		Max. Mark		50

- · Write only your registration number on the question paper in the box provided and do not write other information.
- Use statistical tables supplied from the exam cell as necessary
- Use graph sheets supplied from the exam cell as necessary
- Only non-programmable calculator without storage is permitted

Q.	Answer all questions	
No	Description	Marks
1.	In a college database system, User-1 is a department secretary who deals with the student details like regno, name, address, phone number. User-2 is a course monitor who deals with students course details like number of courses register in the semester, number of credits register in current semester, number of credits completed, and cgpa. User-3 is an account manager who deals with the regno, name, fee paid, and type of residence (day scholar/hosteller). Show the specific information actually available at each level of schemas with respect to the particular user. Show the specific information actually available at each level of schemas with respect to the particular user.	10
2.	 (i) Assume that you are interested in creating a social platform like Facebook. Give suitable reasons and explain why a database approach will be best suited for a social platform data management rather than a file system. Justify your opinion by providing at least 5 salient advantages of database approach in relevance to social media data management, metadata management in social platforms, user data management and handling of features such as likes and comments. [6 Marks] (ii) List any four responsibilities of a database administrator. Discuss any two security measures a DBA can implement to protect sensitive data from unauthorized access. [4 Marks] 	10
	If VIT University Chennai campus wants to set up a database to record details about its staff employees, and the details about the departments they work in. They intend to record the following information. • For each staff member: his or her staff ID, name, job title, and salary.	10

