



CMR INSTITUTE OF TECHNOLOGY Dept. of Information Science & Engineering		USN <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>									
Internal Assessment Test II – June 2026											
Sub:	DATABASE MANAGEMENT SYSTEM						Code:	BCS403			
Date:	02/06/2026	Duration:	90 mins	Max Marks:	50	Sem/Sec:	IV A, B, C	Branch:	ISE		
Answer any 5 full questions from the following.											
									Marks	OBE	
										CO	RBT
1	Determine if the following schedule is serializable and explain your reasoning: i) T1 : R(X)W(X) T2 : R(X)W(X) T1 : COMMIT T2 : COMMIT ii) T1 : W(X)R(Y) T2 : R(X)W(Y) T1 : COMMIT T2 : COMMIT						10	5	L3		
2	What is NoSQL? Explain the CAP Theorem in detail.						10	6	L2		
3	Explain the Two-Phase Locking (2PL) protocol used for concurrency control.						10	5	L2		
4	Discuss the ER to Relational Mapping Algorithm for a Company Database with suitable examples for each step.						10	1	L2		
5	Explain Unary Relational Operations in Relational Algebra with suitable examples.						10	1	L2		
6	List and explain the four major categories of the NOSQL system.						10	6	L2		

Faculty Signature

CCI Signature

HOD Signature

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