

Class Continuous Assessment Component with Rubric

Course Name: Database Management Systems Course Code: CET2002B

A.Y. 2022-23 S.Y.B.Tech Semester IV

Name of Component: Theory Assignment (Marks:05)

Q. No.	Quest	Marks	Mapped CO	Bloom's Level	
		Roll No. : 1-15		•	
Q1.	What is the two-phase locking guarantee serializability?	03	IV	2	
Q2.	Check whether the given scheen	02	IV	4	
	T1	T2			
	R (A)				
	A = A + 10				
		R (A)			
		A = A + 10			
	W (A)				
		W (A)			
	R (B)				
	B = B + 20				
		R (B)			
		B = B x 1.1			
	W (B)				
		W (B)			
	Į,	ļ			
		Roll No. : 16-30		_	
Q1.	What are the problems of lock	03	IV	2	
Q2.	Give an example of a serial transactions such that the ord commit is different from the	02	IV	4	

				Roll No. : 31-45			
Q1.	What are some v protocol? Why is preferred?		03	IV	2		
Q2.	Check whether the given schedule S is conflict serializable and recoverable or not.				02	IV	4
	T1	T2	T3	T4			
	W(X) Commit	R(X) W(Y) R(Z) Commit	W(X) Commit	R(X) R(Y) Commit			
01	<u> </u>		11 1	Roll No. : 46-60	02	***	2
Q1.	Discuss the problems of deadlock and starvation, and the different approaches to dealing with these problems.				03	IV	2
Q2.	Check whether the given schedule S is conflict serializable or not. If yes, then determine all the possible serialized schedules.				02	IV	4
	71	T2	тз	1 74			
	W(B)	R(A) W(A) W(B)	R(A)	R(A)			
	4	I.	1	Dell No. 4 (1.75)			
Q1.	What is a lock?	Explain t	ne maior	Roll No.: 61-75	03	IV	2
ζ1.	What is a lock? Explain the major difference between a shared lock and an exclusive lock during a transaction in a database.			03	1 4	2	



Q2.	Determine all the possible serialized schedules for the given schedule:							02	IV	4
		T1	T2							
	cts.	R(A)								
		A = A-10								
		79.0	R(A)							
			Temp = 0.2 x A							
			W(A) R(B)							
		W(A)								
		R(B)								
		B = B+10 W(B)								
		55/07-55484-04-07	D - D - T							
			B = B+Temp W(B)							
		, v								
0.1	T			No. : 76-90	03	***				
Q1		Database-system implementers have paid much more attention to the ACID properties than have file-system				IV	2			
	implementers	s. Why might tl	nis be the case	?						
Q2	Check wheth	er the given sch	nedule S is view	w serializable or	02	IV	4			
	T1	T2	Т3	T4						
	R (A)									
	,	R (A)								
		26 - 36	R (A)							
				R (A)						
	W (B)	00.000.000								
		W (B)	/P)							
			W (B)	W (B)						
				"(5)						
			Roll N	lo.: 91-101						
Q1	What is a checkpoint in DBMS and when does it occur? 03 IV 2						2			
	Give an example.									



Q2	Check whether the not:	02	IV	4		
	T1	T2	Т3			
	R (A)					
		R (A)				
	W/A)		W (A)			
	W (A)					

Date of Assignment: 21st April 2023 Date of Submission: 2nd May 2023

Name of Course Teacher: Dr. Sukhada Bhingarkar

Sign: