United College of Engineering and Research, Prayagraj

Database Management System (KCS-501) <u>Assignment-5</u>

1. Discuss ab	Question		Bloom's level	
	Discuss about deadlock prevention schemes.		L2	
	What is deadlock? What are necessary conditions for it? How it can be detected and recovered?		L4	
3. Write the example.	Write the salient features of graph based locking protocol with suitable example.			
maintained graph. • T1 wants • T2 wants • T3 wants	ou mean by multiple granularity? How the concurrency is d in this case. Write the concurrent transactions for the following to access Item C in read mode to access item D in Exclusive mode to read all the children of item B to access all items in read mode	CO5	L3	
help of a	What are multi version schemes of concurrency control? Describe with the help of an example. Discuss the various Time stamping protocols for concurrency control also.			
6. What are t	he pitfalls of lock-based protocol?	CO5	L2	
	Describe major problems associated with concurrent processing with examples. What is the role of locks in avoiding these Problems.			
•	Explain the phantom phenomenon. Devise a time stamp based protocol that avoids the phantom phenomenon.			
9. Define Exc	Define Exclusive Lock.		L1	
10. What is Tv	o phase Locking (2PL)? Describe with the help of example.	CO5	L3	