

Seat No:

GANPAT UNIVERSITY
B. TECH. SEM - IV (COMPUTER ENGINEERING/INFORMATION TECHNOLOGY)
REGULAR EXAMINATION MAY/JUNE - 2013
2CE405/2IT405: DATABASE MANAGEMENT SYSTEM-II.

[Time: 3 hrs.]

[Total Marks: 70]

Instructions:

- Figure to the right indicate full marks.
- Assume suitable data if require.
- Each section must be answered in separate answer sheet.

Section - I

- Q - 1 A Explain following Transaction properties with example: **Atomicity , Isolation** 6
 B Draw & explain conceptual diagram of Data Access operation. 6

OR

- Q - 1 A Discuss Query processing Steps with diagram 6
 B Discuss how **TWO Phase Commit** protocol reacts in the event of participating site failure in distributed database system. 6

- Q - 2 A What is conflict serializable schedule? Discuss how to decide given concurrent schedule is conflict serializable schedule? Check following given schedule is conflict serializable schedule or not? 6

T1	T2	T3	T4
R(A)			
W(A)			
			R(C)
	R(B)		
		R(B)	
R(C)			
W(C)			
	W(B)		
		W(C)	

- B Differentiate following terms
 PL/SQL & SQL 5

OR

- Q - 2 A Explain: Data Replication & Data Fragmentation 6
 B Explain Cursor **FOR** Loop with example 5

- Q - 3 A Write a PL/SQL procedure that return right most N characters from the string passed as an argument. 4
 B Explain Recoverable Schedule with example. 4
 C Explain various Loop Structures in PL/SQL with example 4

SECTION-II

- Q.4 A Explain log based recovery. 3
B Explain Thomas write rule. 4
C Explain Simple lock based Protocol. 5

OR

- Q.4 A Differentiate graph based protocol and multiple granularity. 3
B Explain storage types in detail. 4
C Explain upgrading and downgrading with example 5

- Q.5 A Explain the Parallel Database Architecture. 6
B Write trigger which automatically calculate total Whenever you insert values into Table test1 and insert that total into table test2. 5

Table : Test1(No1,No2)
Test2(Total)

OR

- Q.5 A Explain Exception handling in PL/SQL. 8
B Explain Wound wait. 3
Q.6 A Explain immediate database modification. 6
B Explain SIX, IX, IS lock modes. 3
C Explain classification of failure. 3

End of Paper