Oate: 13/05/2020

Exam No:

(3)

## **GANPAT UNIVERSITY** B. TECH SEM- IV(CE/IT) REGULAR EXAMINATION- APRIL-JUNE 2016 2CE403/2IT403: DATABASE MANAGEMENT SYSTEM-II

TIME: 3 HRS **TOTAL MARKS: 60** Instructions: (1) This Question paper has two sections. Attempt each section in separate answer book. (2) Figures on right indicate marks. (3) Be precise and to the point in answering the descriptive questions. Section-I Q.1 Write acronym of ACID. Explain ACID property in detail with suitable example. [A] (5) B What is the role of query optimizer? Explain how query cost is measure. (5)Q.1 A Explain view serializability with proper example. (5)Write and explain basic steps involved in processing a query. B (5) 0.2 Explain locking protocol where each transaction issue lock and unlock requests in two IAI (6) phases. What do you mean by cascading rollback? Is Cascading rollback good or bad for BI (4) database system? How can we avoid cascading rollback? OR Q.2 [A] Explain Multiple granularities locking protocol for ensuring serializability. (6)[B] Explain recoverable schedule and non-recoverable schedule with proper example. (4) Q.3 A Define following terms: (4) Savepoint Explicit cursor %ISOPEN Raise\_application\_error [B] What is the use of wait for graph? Explain with suitable example. (3) [C] Write a PL/SQL code using cursor for loop to display NO, NAME, CITY of first

three rows. Use table Empmaster (NO, NAME, CITY).

## Section-II

		The second secon	1
Q.4	[A]	Explain following terms in short:	1
		Stable storage	1
		Buffer block	
		• Checkpoint	
	1 is short		(4)
	[B]	Explain server system architecture in short.	
		OR	
			(6)
0.4	ra3	Explain transaction server process structure with proper diagram.	(6)
Q.4	[A]	Explain transfer technique with	(4)
	[B]	What is log based recovery? Explain deferred database modification technique with	
	[-1	proper example.	
		A THE CONTROL OF THE PARTY OF T	(4)
Q.5	[A]	Explain following terms in short:	
		Page shipping versus item shipping.	
		Data caching	
		Global transaction	
		• Lock caching	
		C. L. Governmentation? Discuss various types of data	(6)
	[B]	What is the importance of data fragmentation? Discuss various types of data	
		fragmentation.	
		OR	
		sales and the property of the state of the s	(6)
0.5	[A]	Discuss how 2PC protocol responds in various types of failures.	(0)
Q.5	['cz]	Process to the various	(4)
	[B]	What do you mean by transparency in distributed database? Discuss the various	
	[-,	transparencies and its importance in distributed database.	
			(4)
Q.6	[A]	Write a pl/sql code to perform insert, update, delete on table Empmaster	
		(NO,NAME,CITY) during office time only.  *Consider office time is 10 am to 5 pm on Monday to Friday.	
		*Consider office unic is to an to o p	(4)
	£301	Write a code to create pl/sql based function that is work as simple calculator.	(4)
	[B]	Use operator like '+', '-', '*', '/'.	
			(2)
	[C	What is the use of function sqlcode and sqlerrm in pl/sql.	

\*\*\* End Of Paper \*\*\*