BACHELOR OF SCIENCE (COMPUTER SCIENCE) (CBCS - 2018 COURSE) F.Y.B.Sc.(Computer Science) Sem-II :SUMMER- 2022 SUBJECT : RDBMS USING ORACLE

Day : Friday Date : 1/7/2022				1:00 AM-02:00 PM arks : 60	
N.B:	1) 2) 3)	All questions are COMPULSORY . Figures to the right indicate FULL marks. Draw suitable diagrams WHEREVER necessary			
Q.1		Attempt ANY TWO of the following:		(12)	
	a)	Explain two phase locking protocol with the help of example			
	b)	Create table student (Srollno, Sname, Sfees). Insert five recoverite a PL/SQL procedure to display name and fees of a student roll number is given by the user.			
	c)	Explain the following relational algebra operations i) Set Difference ii) Rename iii) Intersection			
Q.2		Attempt ANY TWO of the following:		(12)	
	a)	What is normalization? Explain 1NF and 2 NF in detail.			
	b)	Explain PL/SQL user defined exception with syntax and example and	nple.		
	c)	Explain commit, rollback and savepoint operations.			
Q.3		Attempt ANY TWO of the following:		(12)	
	a)	Draw and explain different states of transaction.			
	b)	Describe how to create and drop trigger with the help of exan	nple.		
	c)	Explain left outer join and right outer join operations.			
Q.4		Attempt ANY THREE of the following:		(12)	
	a)	Explain recoverable and non-recoverable schedule.			
	b)	State the limitations of SQL.			
	c)	Write a PL/SQL block to accept a number and display revers same.	se of the	:	
	d)	Write a PL/SQL block to accept a number and display factoris same.	al of the		
Q.5		Attempt ANY FOUR of the following:		(12)	
	a)	Differentiate between serial schedule and non-serial schedule.			
	b)	What is raise_application_error function?			
	c)	Give the syntax and example of switch case statement in PL/S	QL.		
	d)	What is functional dependency?		1	
	e)	Write a short note on conflict serializability of transactions.			
	f)	Write a short note on different lock modes.			

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