QP Code: 78981

	(2½ Hours)	[Total Marks:
N.B.: (1)	All questions are compulsory	
(2)	Figures to the right indicate full marks.	
(3)	Illustrations, in-depth answers and diagrams will be	appreciated.
(4)	Mixing of sub-questions is not allowed.	, c
1. Attemp	t the following(any three):	
(a)	What is Decomposition? State and explain decomposition.	of characteristics of
(b)	Write a short note on fifth normal form.	LASO
(c)	등하다. 사용을 열려내 이렇게 하는 이번 시간을 하면서 하는 사용을 하게 되었다면 하는 사용을 하는 후에 보고 있다면 하는 것이다.	A V
	it is check for the transfer of money from one accou	int to another account.
(d)	Explain Multi valued dependency in database wi	th Suitable example.

- State and explain conditions which makes two schedules view equivalent of each other.
- What is precedence graph? State the step to draw precedence graph.

## Attempt the following (any three):-

- (a) Explain deadlock concept in terms of Database Management system. 15
- (b) State and explain strict 2PL protocol.
- (c) What is log file? State the propose and importance of it. Also explain structure of data which stored in it.
- (d) State and explain time stamp concurrency control protocol read and write operations.
- State and explain tow transaction and dirty page table are used in recovery (e) mechanism.
- Describe characteristics of Write-ahead log protocol.
- Attempt the following (any three):-
  - What is PL/SQL? State importance of PL/SQL.

(b) Briefly explain different types of 'number data type'

- With appropriate example explain how Null values work in comparisons
- Briefly explain CASE statements in PL/SQL
- State different types of Iterative control structure. Explain any one iterative control structure with example.
- Write a short note on nested table.

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4.	Attempt t	he following (any three):-	15
	(a)	State syntax of defining sequence. Describe different elements used in	
		defining with respect to	
			~
		(ii) Default value if any	0,1
	(b)	Briefly explain need and importance of system catlog.	1/2
	(c)	What is query optimization? Explain it with example.	
	(d)	Write a short note on cursor for loop.	
	(e)	D 1 1 top relational algebra operators	
III E	(f)		
	(1)	the following (any three):-  For a given relation R - (A,B,C,D,E,F)Consider	
5.	Attempt	the following (any three):-	15
	(a)		
	. (4)	$F = \{A \rightarrow B, A \rightarrow C, CD \rightarrow E, CD \rightarrow F, B \rightarrow E\}$ . Find out the closure of F	
	(b)	D id cons of	
	(0)	(i) Writing to disk with Force and No-Force strategy and	
À.,	التصليب أبرأتين	(ii) Cache page with steal and No-steal strategy	
	(a)	to the function	a .
	(c)	in these output put line	
	(4)	o cut a large characteristics of explicit	it
	(d)	cursor.	
	(a)		
	(e)		
	(f)	) Describe in short Dag	
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