Total No	o. of Questions : 5]	SEAT No. :
PB83	5	Total No. of Pages : 2
	[6204]-24	LIE
	M.C.A I (Manag	gement)
IT - 24	: ADVANCED DATA BASE FOR	MANAGEMENT SYSTEM
	(Revised 2020 Pattern) (S	Semester - II)
	0, 3	
Time: 2	1/2 Hours	Max. Marks: 50
Instructi	ions to the candidates:	
1)	All questions are compulsory.	6.
2)	Figure to the right indicate full marks.	
		07
Q1) Case Study 5 [8]		
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b) (Q2) a)	For the above case, hormalize the data	
	OR	- W. S.
	Describe the client-server architecture	[5]
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Explain the mobile database with its architecture.

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[5]

Q3) a)	Why is recovery needed in database? Explain any one log based recovery technique with proper example. [5]	
b)		
a)	Describe the database backup system with its types. [5]	
b)	What type of encryption is used by public key infrastructure and by digital certificates?	
Q4) a)	Check whether the given schedules is conflict seriziable or not $S: R_1, (A), R_2(A), R_1(B), R_2(B), R_3(B), W_1(A).$ [6]	
b)	Explain the features of NOSQL. OR [2]	
a)	What is dead lock? Explain dead lock prevention, detection techniques with proper example. [6]	
b)	State the types of NoSQL. [2]	
Q5) a)	Explain data partitioning techniques in parallel database with examples.[7]	
b)	Differentiate between homogeneous and heterogeneous database. [7] OR	
a)	What is difference between interoperational parallism of intraoperational parallism? [7]	
b)	Explain 2 phase & 3 phase comment protocol in DDBMS with proper example.	
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