	*	
Time A	llowed—3 Hours] [Maximum Marks—7	5
Note :-	question from each Part. The fifth question mabe attempted from any part.	
	PART—A	
1. (a)	for each responsibility, explain the problems the would arise if the responsibility were no	at
(b)	Compare the features of Network, Hierarchica and Relational model.	al 7
2. (a)	Discuss the three level architecture of database management system. Explain the various type of different levels of database architecture Explain.	es
(b)	an example.	7e
	PART—B	
3. (a)	1	8
(b)	What do you mean by recovery of database Discuss the various mechanisms used for the recovery of database.	
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	Time A Note:— 1. (a) (b) 2. (a) (b) 3. (a) (b)	Discuss about the components of ER Model. Givan example. PART—B (a) List five responsibilities of the database manage for each responsibility, explain the problems the would arise if the responsibility were not discharged. (b) Compare the features of Network, Hierarchica and Relational model. (a) Discuss the three level architecture of database management system. Explain the various type of different levels of database architecture Explain. (b) Discuss about the components of ER Model. Givan example. PART—B (a) What is Normalization? Explain the various type of normal forms with example. (b) What do you mean by recovery of database Discuss the various mechanisms used for the recovery of database.

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4.	(a)	What are various methods of concurrence on trois ? Explain in detail two phase lo	
		protocol.	8
	(b)	Explain the five main responsibilities of dat	abase
		administrator. TOAMAM 38A BATAU	7
		PART—C	
5.	(a)	Discuss the use of selection and join oper	rators
		on SQL based queries.	8
	(b)	What are triggers? Also explain the use of tri	ggers
		in database.	7
6.		How would you use the features of nested quin SQL to develop complex queries?	
		examples. hegystosib	8
	(b)	Write short notes on the following terms:	
		(i) DDL and level work only source (i)	
		(ii) DCL. IQX3 meleve memoranism	7
		PART—D	
7.	(a)	What is Big Data? List down various applica	ations
		of Big Data.	8
	(b)	Explain the five V's of Big Data.	7
8.	Writ	te detailed notes on the following:	
	(a)	No SQL open of mean pay of tall (d)	
	(b)	Data Analytics.	15
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