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		Question Pape	er Code: 54805	\neg	
	B.1	E. / B.Tech. DEGREE EX	XAMINATION, DE	C 2020	
		Fourth S	Semester		
		Information	Technology		
	150	UIT405 - DATABASE M	IANAGEMENT SY	STEMS	
		(Regulat	ion 2015)		
Dur	ation: 1:15hrs		N	Maximum: 30 Mar	ks
		PART A - (6	x 1 = 6 Marks		
		(Answer any six of th	e following question	ns)	
1.	In the E-R diagrams, the term cardinality is a synonym for the term?				CO1- R
	(a) Attribute	(b) Degree	(c) Entities	(d) Cartesian	
2.	In a table, represents a relationship among a set of values.				
	(a)Column	(b)Key	(c)Row	(d) Entry	
3.	Which is an unary operation in relational algebra?				
	(a) Selection Operation		(b) Primitive Operation		
	(c) Projection Operation		(d) Generalized selection operation		
4.	The operation, denoted by –, allows us to find tuples that are in one relation but are not in another.				
	(a) Union	(b) Set-difference	(c) Difference	(d) Intersect	ion
5.	Project join Normal form is also referred as				
	(a) 2NF	(b) 3NF	(c) 4NF	(d) 5NF	
6.	In the normal form, a composite attribute is converted to individual attributes.				
	(a) First	(b) Second	(c) Third	ird (d) Fourth	
7.	Which of the following is a procedure for acquiring the necessary locks for a transaction where all necessary locks are acquired before any are released?				
	(a) Record controller		(b) Exclusive lock		
	(c) Authorization rule		(d) Two phase lock		

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8.	states that only valid data will be written to the database.								
	(a) Consistency	(b) Atomicity	(c) Durability (d) Isolation					
9.	Which type of file is easiest to update or modify?								
	(a) Sequential	(b) Hashed	(c) Indexed	(d) Cluster	ed				
10.	The searching technique that takes O (1) time to find a data is CO5-								
	(a) Linear Search	(b) Binary Search	(c) Hashing	(d) Tree Se	earch				
	PART – B (3 x 8= 24 Marks)								
		(Answer any three o	of the following questions)						
11.	Why would you choose a database system over file system? Discuss the architecture of DBMS with a neat diagram				(8)				
12.	Illustrate the uses of examples.	e CO2- U	(8)						
13.	What are the three da data redundancy? Ca database approach? V		(8)						
14.	Illustrate two phase lo	e locking protocol with neat sketch.		CO4- U	(8)				
15.	Explain the difference Particular.	e between Hash inde	xes and B+ tree indexes. In	n CO5- U	(8)				