Bachelor of Science (B.Sc.I.T.) Semester-II (C.B.S.) Examination DATABASE MANAGEMENT SYSTEM

Paper-V

Time	e : Th	[Maximum Marks : 50	
N.B.	:	- (1) All questions are compulsory and carry equal marks.	
		(2) Draw neat and labelled diagram wherever necessary.	
	EIT	THER	
1.	(a)	Explain three level architecture of DBMS in detail.	5
	(b)	Explain the role of database administrator.	5
	OR		
	(c)	What are Data Models ? Explain in detail.	5
	(d)	Explain the following:	
		(i) Database user's	
		(ii) Objectives of database systems.	5
	EIT	THER	
2.	(a)	What is E-R diagram? Explain with example.	5
	(b)	Explain the following:	
		Weak and Strong Entity Set with suitable example.	5
	OR		
	(c)	Discuss the problem on reduction of an E-R schema to tables.	5
	(d)	Explain with example relationship set.	5
	EIT	THER	
3.	(a)	Explain with example aggregate functions.	5
	(b)	What is Relational Algebra? Explain.	5

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OR

	(c)	Explain with example natural join.	5		
	(d)	List the advantages of relational model.	5		
	EIT	THER			
4.	(a)	What is Normal form? Explain 2NF with an example.	5		
	(b)	Define functional dependency. Explain with example.	5		
	OR				
	(c)	What is multi valued dependency? Explain.	5		
	(d)	What are the objectives of the normalization?	5		
5.	Attempt All:				
	(a)	Explain data independence.	21/2		
	(b)	Explain entity, attributes and relationship.	21/2		
	(c)	Explain select operation in relational algebra with suitable example.	21/2		
	(d)	Define 3 NF	21/2		