

Code No.: 5285/S

FACULTY OF INFORMATICS B.E. 3/4 (IT) I Semester (Suppl.) Examination, June 2012 DATABASE SYSTEMS

Time: 3 Hours] [Max. Marks: 75

Note: Answer all questions from Part A.

Answer any five questions from Part B.

	PART — A	(25 Marks)
A second	List the major disadvantages if information is organized in a file procesystem.	cessing and 2
2.	What is a weak entity set? Describe with example.	3
3.	Write how relational algebra operations deal with NULL values.	
4.	Evaluin aut mambarahin in COI	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
5.	What is the difference between 3NF and BCNF?	3
6.	How do define a procedure in SQL?	2
7.	What is the difference between a B - tree and B + tree?	3
8.	List the ACID properties.	2
9.	Write about Thomas, write rule.	3
10.	Draw the architecture of remote backup system.	2
	PART-B	(5×10=50 Marks)
11.	a) What are the functions of a database administrator?	3
	b) Discuss in detail E-R diagram design issues.	7
12.	a) Explain about different outer join operations in relational algebra	. 3
	b) Discuss about basic structure of SQL queries.	ony
(Th	is paper contains 2 pages) 1	P.T.O.

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13.	a) Discuss in detail about integrity constraints in SQL.	7
	b) List and explain Armstrong's axioms.	3
14.	a) What are the disadvantage of static hashing and how it is overcome by dynamic hashing?	5
	b) How do you test whether a given non-serial schedule is serializable?	5
15.	Compare and contrast the deferred and immediate-modification versions of log based recovery scheme.	10
16.	Write short notes on: Or Described and Received to the Light President of the Lab rates	
	a) Generalization and specialization.	5
	b) Fundamental relational algebra operations.	5
17.	Write short notes on:	
	a) Views in SQL.	5
	b) Bitmap indices.	5

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