JU - 897

VI Semester B.E. (CSE/ISE) Degree Examination, January/February 2014 (Y2K6 Scheme)

CI - 6.2: DATABASE MANAGEMENT SYSTEM

Time: 3 Hours Max. Marks: 100

Instruction: Answer **any five** questions, selecting atleast **two** from **each**Part.

PART – A

1.	a)	Explain the architecture of DBMS with a neat diagram.	8
	b)	Bring out the advantages and disadvantages of DBMS over conventional file system.	7
	c)	Discuss the classification of DBMS.	5
2.	a)	What are the different types of attributes? Explain with examples.	10
	b)	Explain the ER-to-relational mapping algorithm with an example.	10
3.	a)	Write a note on the DML operations that can be performed on a relational model, along with the constraints that are violated with examples.	8
	b)	Discuss the relational algebra aggregate functions with example.	6
	c)	Explain SET theoretic operations.	6
4.	a)	Explain the following relational operations with example for each. i) SELECT ii) PROJECT	
		iii) JOIN.	10
	b)	What is a view in SQL, how is it defined? Discuss the problems that may arise when one attempts to update a view.	10

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PART-B

5.	a)	State the informal design guidelines for relational schema design. Illustrate how violation of these guidelines may be harmful.	12
	b)	Define FD, explain 2NF and 3NF with an example.	8
6.	a)	State and prove Armstrong's Inference rules.	10
	b)	Define multivalued dependencies and join dependencies with examples.	10
7.	a)	With a diagram explain the oracle architecture.	10
	,	Discuss the various features of Ms-Access.	5
	C)	Write a note on embedded SQL.	5
8.		rite notes on any four of the following : Data warehousing	20
	,	Spatial databases	
	•	Association rules Mabile databases	
	,	Mobile databases Digital libraries.	