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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Sixth Semester B.Tech Degree Regular and Supplementary Examination July 2021

Course Code: IT366
Course Name: ADVANCED DATABASE MANAGEMENT SYSTEMS

Max. Marks: 100   Duration: 3 Hours

PART A

Answer any two full questions, each carries 15 marks.   Marks

1	a)	Explain different steps involved in distributed query processing.	(7)
	b)	How two phase commit protocol works for concurrency Control? Explain with a neat diagram.	(8)
2	a)	Explain the different methods used for distributed concurrency control.	(8)
	b)	Explain the data fragmentation, replication and allocation technique used in distributed database design.	(7)
3	a)	Explain about OQL Queries with Database Entry Points and iterator variables with examples.	(10)
	b)	What is semi join operation? Explain with example.	(5)

PART B

Answer any two full questions, each carries 15 marks.

4	a)	Illustrate with example FP-Growth algorithm.	(8)
	b)	Explain the steps involved in constructing a data warehouse.	(7)
5	a)	Explain the architecture of mobile database with a neat diagram	(8)
	b)	What are different the phases of the knowledge discovery process?	(7)
6	a)	What are the characteristics of web databases?	(6)
	b)	How classification algorithms are useful in data mining? Using an example, Explain classification using simple decision tree.	(9)

PART C

Answer any two full questions, each carries 20 marks.

7	a)	Draw an E-R diagram for a Banking System.	(10)

	b)	What do you mean by tuning of database? Explain any three tuneable parameters in database.	(10)
8	a)	What are the challenges and issues in database security?	(10)
	b)	How knowledge base differs from database?	(4)
	c)	Explain about multimedia database.	(6)
9	a)	Explain Boyce Codd Normal form. How it is different from third normal form?	(10)
	b)	Write a relation R which is in 2NF but not in 3NF. Show all functional dependencies in the relation R.	(10)

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