**R19** 

## Code No: 862AC

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA II Semester Examinations, July/August - 2021 DATABASE MANAGEMENT SYSTEMS

Time: 3 Hours Max.Marks:75

## Answer any five questions All questions carry equal marks

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1.a)	Explain the Database system structure.	
b)	Discuss conceptual database design for large enterprises.	[7+8]
2.a)	Explain the role of file manager and buffer manager in DBMS.	
b)	Describe the components of query processor and query evaluation necessary diagram.	engine with [7+8]
3.a)	What is a view? Discuss its role in Database security.	
b)	Explain in detail the Division operation in Relational Algebra.	[7+8]
4.a)	What is relational database. Illustrate Tuple relational calculus.	
b)	Explain domain relational calculus.	[7+8]
5.a)	Compare Nested query and correlated query. Discuss suitable examples.	
b)	What is a Trigger? How do they enforce Integrity constraints?	[7+8]
6.a)	Describe Multi-valued dependencies with examples.	
b)	Explain the various problems caused by Redundancy.	[7+8]
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7.a)	Explain the corcept of log based recovery.	
b)	Explain advatced recovery systems.	[7+8]
8.a)	What is an index? Differentiate between Sparse and dense indices.	
b)	Make a comparison of Sorted file organization.	[7+8]

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