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Code No: 843AA

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, April/May - 2019 DATABASE MANAGEMENT SYSTEMS

Time:		Max.Marks:75
Note:	This question contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all question consists of 5 Units. Answer any one full question from each unit. Ea 10 marks and may have a, b, c as sub questions.	
PART - A		
		5×5 Marks = 25
1.a)	Discuss about different types of database users.	[5]
b)	What is functional dependency? Explain with an example.	[5]
c) d)	What is functional dependency? Explain with an example. What is a transaction? What are the properties of transaction?	[5] [5]
e)	What are sparse and dense indexes?	[5]
DADT D		
PART - B		
2.a)	What is the role of storage manager? Explain.	3 × 10 Walks = 30
b)	Explain about database system architecture.	[5+5]
	OR	
3.	Discuss about various data models.	[10]
4.	Discuss about integrity constraints over relations.	[10]
	OR	[-]
5.a)	Discuss about destroying and altering tables and views.	
b)	Explain in detail about nested queries.	[5+5]
6.	Discuss about different types of relational calculus in detail.	[10]
0.	OR	[10]
7.	Explain 3 NF and BCNF with examples.	[10]
8.	Explain timestamp based protocols.	[10]
9.	OR Explain ARIES recovery system.	[10]
٦.	Explain Miles recovery system.	[10]
10.a)	Explain ISAM in detail.	
b)	Explain about cluster index.	[5+5]
1.1	OR	F1.03
11.	Explain about different file organizations.	[10]

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