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Code No: 154AM

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech II Year II Semester Examinations, November/December - 2020 **DATABASE MANAGEMENT SYSTEMS**

(Common to CSE, IT)

Time: 2 Hours Max. Marks: 75

Answer any Five Questions All Questions Carry Equal Marks

1.a)	What is DBMS? List four significant difference between file processing sys DBMS?	stem and a
1)		F.C.+ 0.7
b)	What is E-R model? Draw an E-R Diagram for any Banking enterprise system.	[6+9]
2.a)	Explain about outer join operation in relational algebra.	
b)	Explain about domain relational calculus with example.	[7+8]
U)	Explain about domain relational calculus with example.	[, . 0]
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3.a)	Explain the following Operators in SQL with examples	
	i) SOME ii) IN iii) EXCEPT iv) EXISTS	
b)	Explain various DML functions in SQL with examples.	[8+7]
4.	Explain shadow paging recovery scheme for recovering the data base?	[15]
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5.	Explain deletion and insertion operations in linear hashing with examples.	[15]
6.a)	Explain about various database users and administrators in DBMS.	
b)	Draw an ER-Diagram for Week entity set and Strong entity set with example.	[7+8]
U)	Draw an ER-Diagram for week entity set and Strong entity set with example.	[/ 0]
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7.a)	Explain modification of the database operations in relational algebra with example	e.
b)	Explain about domain relational calculus with example.	[8+7]
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8.	What is normalization? Explain 4NF and 5NF Normal forms with example.	[15]
ο.	what is normalization: Explain 41vi and 51vi roomal forms with example.	

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