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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, October/ November - 2020 DATABASE MANAGEMENT SYSTEMS

Time: 2 Hours Max.Marks:75

Answer any five questions All questions carry equal marks

1.a) b)	Discuss the drawbacks of storing and managing the data in the files. What are participation constraints in ER model?	[7+8]
2.	Explain various DDL and DML commands with suitable example.	[15]
3.a) b)	Explain the commands available for modifying the database in SQL. Explain the aggregate functions with SQL.	[7+8]
4.a) b)	Explain and compare WHERE and Having Clause. How are the OUTER JOIN operations different from JOIN operations? How OUTER UNION operation different from UNION?	is the [7+8]
5.	Using the following schema write the queries using Relational Algebra Sailors (sailor-id, sailor-name, sailor-rating, sailor-age) Boats (boat-id, boat-name, boat-color) Reserves (sailor-id, boat-id, booked-date) a) List all the boat details whose color is "Red" b) List the Sailor details whose have not booked a boat on "10/12/2019" c) List the Sailor details who are aged more than 40. d) List the Sailors who booked Red boat on "10/12/2019"	
	e) List the sailor whose rating is "6" and booked a "green" boat.	[15]
6.	Explain each of the following with example a) Boyce-Codd Normal Form b) Fourth Normal Form	[7+8]
7.a) b)	Describe the three phases of the ARIES recovery method. Describe the write-ahead logging protocol.	[7+8]
8.	Explain Linear Hashing and extendable Hashing as dynamic indexing structure.	[15]

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