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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	quest	ions
All questions carry	equal	marks

	F1.63
Explain about different types of integrity constraints.	[15]
Draw the ER diagram for Hospital Management system.	[15]
Consider the following schema and write the SQL statements for the queries gives SAILORS(<u>Sid</u> , Sname, rating, age) BOATS(<u>bid</u> , bname, color) RESERVES(<u>sid</u> , <u>bid</u> ,day) a) Find names of sailors who reserved green boat b) Find the colors of boats reserved by "Ram" c) Find names of sailors who have reserved a red or a green boat.	n below:
d) Find the "sids" of sailors with age over 20 who have not registered a red boat.	[15]
Define Join? Explain different types of joins.	[15]
dependencies	
Explain Multi valued Dependencies and Fourth normal form with example.	[15]
Discuss in detail Multiple Granularity locking protocols.	[15]
Explain about Clustering File Organization and Heap File Organization.	[15]
	Consider the following schema and write the SQL statements for the queries given SAILORS(Sid, Sname, rating, age) BOATS(bid, bname, color) RESERVES(sid, bid,day) a) Find names of sailors who reserved green boat b) Find the colors of boats reserved by "Ram" c) Find names of sailors who have reserved a red or a green boat. d) Find the "sids" of sailors with age over 20 who have not registered a red boat. Define Join? Explain different types of joins. Consider the universal relation R = {A, B, C, D, E, F, G, H, I, J} and the set of fur dependencies F={ {A,B} -> {C}, A} -> {D,E}, {B}->{F}, {F} ->{G,H}, {D} -> {I,J}}. What is the key for R? Decompose R into 2NF, then 3NF relations. Explain Multi valued Dependencies and Fourth normal form with example. Discuss in detail Multiple Granularity locking protocols.

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