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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

All questions carry equal marks Explain about different types of integrity constraints. 1. [15] 2. Draw the ER diagram for Hospital Management system. [15] 3. Consider the following schema and write the SQL statements for the queries given below: 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. [15] Define Join? Explain different types of joins. 4. [15] Consider the universal relation R = {A, B, C, D, E, F, G, H, I, J} and the set of functional 5. dependencies $F = \{ \{A,B\} \rightarrow \{C\}, A\} \rightarrow \{D,E\}, \{B\} \rightarrow \{F\},$ {F} → {G,H}, {D} → {I,J}}. What is the key for R? Decompose R into 2NF, then 3NF relations. [15] Explain Multi valued Dependencies and Fourth normal form with example. 6. [15] 7. Discuss in detail Multiple Granularity locking protocols. [15] 8. Explain about Clustering File Organization and Heap File Organization. [15]

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