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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, February - 2022 **DISTRIBUTED DATABASES**

Time: 3 Hours Max.Marks:75

Answer any five questions

- All questions carry equal marks 1. Explain with examples various types of data fragmentation. [15] 2.a) Describe the reference architecture of distributed database systems. What are integrity constraints explain in detail. b) [8+7]Illustrate with examples query optimization of aggregate functions and parametric 3.a) functions. b) Discuss the process of query optimization. [8+7]What is query translation? Explain equivalence query transformation. 4.a) b) How a global query is transformed into fragment query? [8+7]5. Define dead lock? Discuss in detail various control organizations for distributed dead lock detection. [15] What is a correct distributed concurrency control mechanism? List some correct distributed 6. concurrency control mechanism. Prove that time stamp based protocol is correct. [15]
- What is check point? Explain its roles in recovery procedures. 7.a
 - List out optimistic methods for distributed concurrency? Explain them in brief. b) [7+8]
- 8. Write a short note on:
 - a) Pointer swizzling
 - b) Object Migration.

[7+8]

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