## BE((omp) R19 (schime 13-05-25

DMCE

(Time: 3 Hours)

Marks: 80

N.B: 1) Question number 1 is compulsory. 2) Attempt any three out of the remaining. 3) Assume suitable data if necessary and justify the assumptions. 4) Figures to the right indicate full marks. Q 1 A Enlist the issue in designing the Distributed System? Explain failure transparency & [5] location transparency in detail What are the key features of Global Scheduling algorithm. [5] C Explain Bully algorithm with example [5] D Explain the various ordered semantics used for Many to Many communication [5] Q 2 A Explain Chandy Misra Hass Algorithm [10] Desirable features of a good DFS? [10] Q 3 A Explain load estimation, process transfer and location policies with respect to load [10] balancing approach in distributed systems. Explain Raymond's algorithm for mutual exclusion. [10]

A Explain the goals of distributed systems. [10]

B How Lamport does synchronizes logical clock explain with example? Which events [10] are said to be concurrent in Lamport's timestamp.

Q 5

04

A What is fault tolerance? Describe different types of failure models.

[10]

B. What is RPC? Explain working of RPC in detail.

What is RPC? Explain working of RPC in detail [10]

Q6

A Discuss the technique to achieve the Process resilience.

B What is need of code migration? Explain the role of process to resource and resource [10] to machine binding in code migration.

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prog cock