

Code No: R194112D

R19

Set No. 1

IV B.Tech I Semester Advance Supplementary Examinations, March – 2023

DISTRIBUTED SYSTEMS

(Information Technology)

Time: 3 hours

Max. Marks: 75

*Answer any FIVE Questions
ONE Question from Each unit
All Questions Carry Equal Marks*

UNIT I

- 1 a) Explain Message-passing system with example. [7]
b) What is parallel system? Explain them [8]
(OR)
- 2 a) What is synchronous mode communication? Explain them [7]
b) List out communication networks and disuses it. [8]

UNIT II

- 3 a) Write short note on the web service architectural patterns. [7]
b) Explain asynchronous distribute system with diagram [8]
(OR)
- 4 a) Disuses real-time ordering of events with diagram [7]
b) Explain security model with example. [8]

UNIT III

- 5 a) Explain Lamport's algorithm [7]
b) What do you mean by Deadlock? Write the necessary conditions for [8]
the occurrence of deadlock in distributed system?
(OR)
- 6 a) Differentiate resource deadlock and communication deadlock. [7]
b) Explain the assumption model for deadlock detection. [8]

UNIT IV

- 7 a) Difference between blocking checkpoint and non-blocking checkpoint [7]
b) Explain coordinate check pointing with the help of diagram [8]
(OR)
- 8 a) Difference between deterministic and non-deterministic events [7]
b) Write an algorithm for asynchronous checkpoint [8]

UNIT V

- 9 a) Explain Tapestry routing algorithm [7]
b) Difference between Structured versus unstructured peer-to-peer systems [8]
(OR)
- 10 a) Disuses Strategies for effective search in peer-to-peer [7]
b) What is data indexing? Explain them. [8]

