

No. of Printed Pages : 03

Roll No.

G14

B. Tech. EXAMINATION, May 2019

(Seventh Semester)

(B. Scheme) (Re-appear Only)

(CSE)

CSE453B

Distributed Computing

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit.

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P.T.O.

Unit I

1. (a) How communication in a peer group is different from communication in a hierarchical group ? Explain with example. **10**
(b) Why is it not always a good idea to aim at implementing the highest degree of transparency possible ? **5**
2. Write and explain any *three* consistency models used in distributed shared memory. **15**

Unit II

3. (a) Define physical clock. Explain Berkley's algorithm for synchronization of clocks. **8**
(b) Explain any *one* RPC call semantics used in a distributed system. **7**
4. What is the need of file replication service in a distributed system ? Write and explain the "Primary Copy Replication Algorithm". **15**

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Unit III

5. Define the term "Randomization". List and explain the different stages in the life-cycle of a randomization algorithm. **15**
6. List the reasons behind code migration. Explain any *two* code migration models. **15**

Unit IV

7. Define the term "Mobile Agent". List any *five* advantages of mobile agents. Also write any *five* application areas of mobile agents. **15**
8. Explain the importance of EJB. Explain the life-cycle of different types of beans with appropriate diagrams. **15**

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