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AA584

M. Tech. EXAMINATION, May 2019

(First Semester)

(B. Scheme) (Re-appear)

(CSE)

CSE507B

ADVANCED OPERATING SYSTEM

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.	Explain the architecture of distributed	operating
	systems. List the issues in distributing	operating
	systems.	15

- 2. (a) Explain advantages of distributed systems over centralized systems and independent PCs.5
 - (b) Explain various communication primitives. 10

Unit II

- What do you mean by clock synchronization?Explain the various types of clocks.
- **4.** Write short notes on the following: 15
 - (a) Bully election algorithm
 - (b) Timestamps.

Unit III

- 5. Explain the following: 15
 - (a) Various issues in deadlock detection
 - (b) Hierarchical deadlock detection.

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6. What are the different strategies for handling deadlock?

Unit IV

- 7. (a) What is distributed file system? Explain its various features.
 - (b) Explain agreement protocols for handling processor failure. 7
- 8. (a) What do you mean by concurrency control? Explain how timestamps are used for concurrency control.
 - (b) Explain the concept of shared variable distributed shared memory.7

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