Roll No

IT-6005(2)-CBGS

B.E. VI Semester

Examination, June 2020

Choice Based Grading System (CBGS)

Distributed System

Time : Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- 1. a) Explain the various challenges in the Distributed Systems?
 - b) Explain Lamport's logical clock and limitations of Lamport's clocks.
- 2. a) What problems encounter in the Distributed System due to absence of Global clock?
 - b) Explain various token based algorithms:
 i) Suzuki Kasami Broadcast Algorithm
 Singhal's Heuristic algorithm
- 3. a) Explain Byzantine agreement problem and agreement and validation condition for it.
 - b) How are agreement protocol are classified? Explain in detail.
- 4. a) Differentiate between communication and resource deadlock.
 - b) Explain deadlock handling strategy in distributed system.

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PTO

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- 5. a) Describe the features of Java RMI.
 - b) Explain the architecture of SUN Network file system.
- 6. a) Explain the various design issues of file system? What are the goals of distributed file system?
 - b) What do you understand by Replication? Explain in brief of explicit replication.
- 7. a) Discuss concurrency control in distributed transactions.
 - b) Write short notes:
 - i) Atomic Commit Protocol
 - ii) Transaction Recovery
- 8. a) What are wave and traversal algorithm? Explain the termination decision and dependence requirement of wave algorithm.
- b) Discuss the functionality of deadlock free packet switching and explain the role of store and forward technique.
 Introduction (********)

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