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Roll No

CS-7001-CBGS

B.E. VII 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 designing distributed system. 7
b) Describe in details Distributed Computing model. 7
2. a) Explain advantages and disadvantages in Distributed system. 7
b) Explain characteristics of good distributed file system.7
3. a) Explain basic concepts of Distributed shared memory and its types. 7
b) Explain the Communication between distributed objects.7
4. a) Explain the Lamport's logical clock and their limitations? Also explain the vector clock. 7
b) Explain Bully and Ring election algorithm with suitable examples. 7

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5. a) Explain challenges in distributed deadlock detection and resolutions. 7
b) Enlist load distribution algorithm and explain any one of them. 7
6. a) Explain distributed database management system and its types. 7
b) Explain case study of Amoeba distributed system. 7
7. a) What are stub and skeleton and why are they needed in remote procedure calls? 7
b) Explain the concepts of fault-tolerant services. 7
8. a) Name all modules of file system operations and write in detail about distributed file system requirements. 7
b) Differentiate among the following properties of a distributed file system - Availability, Recoverability and Robustness. 7

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