Total No. of Questions : 8] *[Total No. of Printed Pages : 2*

Roll No .....

CS-7001 (CBGS)

B.E. VII Semester

Examination, November 2019

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) What is distributed system? Describe main characteristic of distributed system also give two examples of distributed system.

   b) Give five types of hardware resources and five types of software resources that can be shared. Give examples of their sharing as it occurs in distributed system.

2. a) How Shared Address Space (SAS) architecture helpful for distributed system?

   b) Explain the hints, caching, mounting and bulk data transfer with reference to distributed file system in detail with examples.

3. a) Explain naming in detail. What is the role of Naming services.

   b) Why is clock synchronization is necessary? Describe the design requirements for a system to synchronyse the clocks in a distributed system.

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4. a) What is the communication models proposed for the communication between the distributed objects.

   b) What do you understand by Remote Procedure Call (RPC) Also illustrate its implementation and mechanism.

5. a) What do you mean by mutual exclusion in distributed system? Explain and compare the various algorithms related to distributed mutual exclusion.

   b) Explain with the help of suitable examples Bully and Ring Algorithms.

6. a) Explain the deadlock handling strategies in distributed system. http://www.rgpvonline.com

   b) Define and differentiate resource deadlock and communication deadlock.

7. a) Explain the role of wait-for-graph is distributed deadlock detection.

   b) Explain the types of distributed database.

8. Write short notes on the following.

   a) Distributed Multimedia

   b) Fault-Tolerant Services.

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