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

Roll No ....

CS-702 (GS)

B.E. VII Semester

Examination, December 2017

Grading System (GS)

Distributed Systems

Time : Three Hours

Maximum Marks : 70

Note: i)   Attempt any five questions.

ii)   All questions carry equal marks.

1. a) Explain the principle of distributed system. Discuss its advantages and disadvantages with respect to centralized system.

   b) What are the major issues in designing on distributed system?

2. a) Describe Remote Procedure Calls (RPC) mechanism with suitable example.

   b) What is deadlock in a distribution system? What are the various method of detecting deadlock in a distributed environment?

3. a) What do you mean by mutual exclusion? Explain with an example how mutual exclusion can be achieved in distributed environment.

   b) What is the need of clock synchronization in distributed system?

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4. a) Describe in brief the various Inter-process communication and co-ordination mechanism.

   b) Explain Distributed Share Memory Architecture and its types.

5. a) How resource management is done in a distributed multimedia system? Explain.

   b) What is distributed data base management system and its functions?

6. a) Explain the features of multimedia databases and Image database.

   b) Explain file sharing semantics and file catching scheme.

7. a) Discuss the various issues in designing distributed system.

   b) Explain any one Election Algorithm in detail.

8. Write a short note on (any two):

   a) Distributed deadlock algorithm

   b) Fault tolerance

   c) Distributed file system

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