

Roll No

IT-601 (GS)**B.E. VI Semester**

Examination, May 2018

Grading System (GS)**Distributed Systems***Time : Three Hours**Maximum Marks : 70**Note:* i) Attempt any five questions out of eight.

ii) All questions carry equal marks.

1. a) Explain the three tiered client-server architecture. 7
b) Discuss briefly the various issues related to distributed system design? 7
2. a) Explain various issues in deadlock recovery. 7
b) What is Byzantine agreement problem? Write its application for deadlock detection and prevention. 7
3. a) Explain the significance of RMI in distributed system. 7
b) What is a covert channel? Which methods are used by covert channel to leak information to other processes? 7

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4. a) What is fault tolerance state the techniques for handling fault-tolerance in distributed system? 7
b) Compare the relative merits of centralized and hierarchical deadlock detection in DBMS. 7
5. a) Describe a timestamp-based concurrency control for a distributed DBMS. 7
b) Write difference between synchronous and Asynchronous replication. 7
6. a) Write and explain edge chasing algorithm. 7
b) Describe about network file system. 7
7. a) Explain Election Algorithm with the suitable example. 7
b) Draw the architecture of CORBA and explain it. 7
8. Write short notes on: 14
a) Destination based Routing
b) Consensus problem
c) Token based algorithm
d) Shared memory

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