



Code No. : 6215/O/S

FACULTY OF ENGINEERING
B.E. 4/4 (CSE) I Sem. (Old) Examination, July 2014
DISTRIBUTED SYSTEMS

Time: 3 Hours]

[Max. Marks: 75

Note : Answer **all** questions from Part – **A**, and **any five** questions from Part – **B**.

PART – A

25

1. What is the role of firewall in distributed system ? 3
2. What is an intranet ? 2
3. Differentiate between RPC and LRPC. 3
4. What is XML name space ? Give example. 2
5. Give the difference between stub and skeleton. 3
6. Define distributed debugging. Give example. 3
7. A reliable multicast is one that satisfies the following properties (choose **any one**). 2
 - a) Integrity, validity
 - b) Integrity, validity, agreement
 - c) Integrity, validity, agreement and delivery
 - d) Integrity, recoverability and durability.
8. What is dirty read ? 2
9. List any three rules for committing nested transactions. 3
10. Define distributed shared memory. 2

PART – B

(5×10=50)

11. What is distributed system ? Discuss about the challenges for constructing distributed system.
12. What is interprocess communication ? Discuss general characteristics of IP communication with example.
13. List out the pitfalls of Christian's algorithm and explain how Berkley's algorithm tries to resolve the issue.



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14. Explain how the time stamp approach helps in overcoming the lost update problem, with an example.
 15. What is sequential consistency ? Describe various methods for implementing sequential consistency.
 16. a) What is arbitrary failure ? Write its classification affects and description.
b) Compare monolithic and micro kernel design.
 17. a) Discuss briefly about gossip architecture.
b) Discuss the architecture of NFS.
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