LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

THIRD SEMESTER – NOVEMBER 2015

CS 3951 - DISTRIBUTED COMPUTING

Date : 11/11/2015   Dept. No.   Max. : 100 Marks
Time : 09:00-12:00

Part A

Answer ALL questions   **10 x 2 = 20**

1. What is a WebCrawler?
2. List any two advantages of a Search engine.
3. List the similarities between RMI and RPC.
4. What is the use of Proxy server?
5. Define Threads.
6. What is the main purpose of Cryptography?
7. What is a Directory service?
8. Define the history of process Pi.
9. List the Transaction operations types.
10. State the Time stamp ordering rule.

Part B

Answer ALL questions   **5 x 8 = 40**

11 a) Write the types of networks.
(OR)
b) Describe the classfull IP addressing Scheme with examples.

12 a) Explain the UDP datagram communication in detail.
(OR)
b) Discuss about the implementation issues of Group communication.

13 a) Write the invocation mechanism within the address space.
(OR)
b) Discuss about the File Service Architecture in detail.

14 a) Write the global states properties with consistence cuts.
(OR)
b) Write about the Events and Processes occurrence of distributed system.

15 a) Discuss about the types of Locks used in transactions.
(OR)
b) Explain Nested transactions.

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Part C

16 a) Discuss about the network principles.

    b) Explain the paradigms of RPC and RMI.

17 a) How does communications happen between the distributed objects?

    b) Explain the various operations of a distributes file system.

18 a) Describe the Global Name System with suitable examples..

    b) Explain the Concurrency control mechanism used in   Distributed

      environment.

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