B. Tech Degree VII Semester (Supplementary) Examination July 2010

IT/CS 704 DISTRIBUTED COMPUTING
(2006 Scheme)

Time : 3 Hours   Maximum Marks : 100

PART - A
(Answer *ALL* questions)

(8 x 5 = 40)

I. (a) Discuss the concept of shared resources in a distributed system.
   (b) Write a short note on client server communication in distribution system.
   (c) Differentiate process and threads.
   (d) Write a short note on Simple Name Service.
   (e) Describe the design requirements for a system to synchronize the clocks in distributed system.
   (f) Write a short note on basic architectural model for the management of replicated data.
   (g) Explain the features of nested transactions.
   (h) Briefly explain about distributed transactions.

PART - B

(4 x 15 = 60)

II. Discuss the building blocks for inter process communication.
                                          OR
III. Explain the similarities and differences between RPC and conventional procedure calling

IV. How the traditional operating system concept of process has been superseded by multi-threaded processes? Explain.
                                          OR
V. Explain in detail about The Sun Network File System.

VI. Explain in detail about Cristian's algorithm.
                                          OR
VII. Explain in detail about Gossip architecture.

VIII. Explain concurrency control in distributed system.
                                          OR
IX. Explain in detail about transaction recovery.

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