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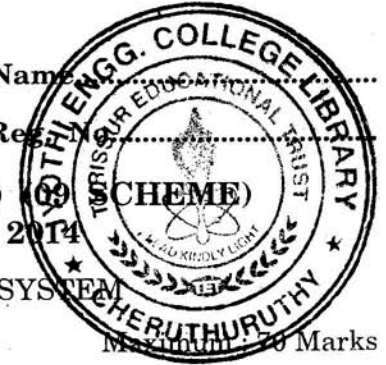
Name _____

Reg. No. _____

**SEVENTH SEMESTER B.TECH. (ENGINEERING)
DEGREE EXAMINATION, NOVEMBER 2014**

CS 09 705 L07/IT 09 705 L 23—DISTRIBUTED SYSTEMS

Time : Three Hours



Maximum Marks 20

Part A

Answer all questions.

- I. (a) What are the functionalities of an operating system ?
(b) Bring out the need for concurrent programming.
(c) What is directory service ?
(d) What do you mean static process scheduling ?
(e) Enumerate the concepts of distributed shared memory.

(5 × 2 = 10 marks)

Part B

Answer any four questions.

- II. (a) Discuss about distributed system architecture in detail.
(b) Discuss about memory issues of creating a process and a thread.
(c) Explain in detail about any one concurrent programming language.
(d) Explain in detail about distributed message passing communication.
(e) Write short notes on leader election.
(f) Discuss about real time scheduling.

(4 × 5 = 20 marks)

Part C

Answer all questions.

- III. (a) Enumerate and explain about major design issues of a distributed system.

Or

- (b) Discuss in detail about Distributed Computing Environments (DCE).

- IV. (a) Explain in detail about distributed client server model.

Or

- (b) Elaborate about time service language mechanisms for synchronization.

Turn over

V. (a) Discuss in detail about the process of transaction communication.

Or

(b) Elaborate about distributed message passing communication and request/reply communication.

VI. (a) Explain in detail about dynamic load balancing mechanisms.

Or

(b) Enumerate and explain the concepts of distributed computer security.

(4 × 10 = 40 marks)