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Name.....

Reg. No.....

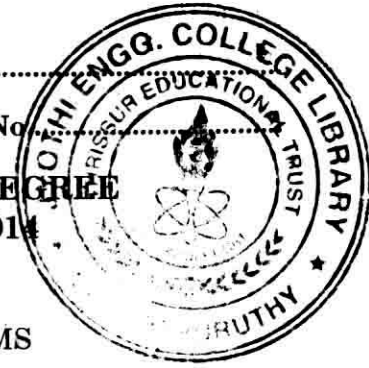
**SEVENTH SEMESTER B.TECH. (ENGINEERING) DEGREE  
[SUPPLEMENTARY] EXAMINATION, APRIL 2014**

(2009 Scheme)

CS 09 705 L07/IT 09 705 L23—DISTRIBUTED SYSTEMS

Time : Three Hours

Maximum : 70 Marks



**Part A**

*Answer all questions.*

- I. (a) What are the memory management service of an operating system ?  
(b) Bring out the need for concurrent processing.  
(c) What do you mean by name service ?  
(d) Bring out the need for 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 concept environment.  
(b) Discuss about memory issues of creating a process and a thread.  
(c) Explain in detail about distributed client server model.  
(d) Explain in detail about transaction communication.  
(e) Write short notes on leader election.  
(f) Discuss about static process scheduling.

(4 × 5 = 20 marks)

**Part C**

*Answer all questions.*

- III. (a) Enumerate and explain about transparencies in a distributed system.

*Or*

- (b) Discuss in detail about Distributed system concepts and architectures.

- IV. (a) Explain in detail about the working mechanism of any *one* concurrent programming language.

*Or*

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

**Turn over**

V. (a) Discuss in detail about distributed message passing communication.

*Or*

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

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

*Or*

(b) Enumerate and explain the concepts of distributed file systems.

(4 × 10 = 40 marks)