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Name.....................

Reg. No.....................

SEVENTH SEMESTER B.TECH. [ENGINEERING] (09 SCHEME) DEGREE EXAMINATION, NOVEMBER 2015

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

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

I. (a) What are the features of an operating system ?

   (b) Distinguish between a process and a thread.

   (c) What is a name service ?

   (d) What do you mean by distributed process scheduling ?

   (e) Enumerate the concepts of distributed computer security.

(5 × 2 = 10 marks)

Part B

Answer any **four** *questions.*

II. (a) Discuss about different types of schedulers in an operating system.

   (b) Discuss about concurrent programming.

   (c) Explain about client server model of a distributed system.

   (d) Explain in detail about distributed directory services.

   (e) Write short notes on leader election.

   (f) Discuss about the distributed shared memory.

(4 × 5 = 20 marks)

Part C

Answer all questions.

III. (a) Explain in detail about the different transparencies in distributed system.

Or

   (b) Discuss in detail about Distributed System Architecture with a neat sketch.

IV. (a) Explain in detail about time service language mechanisms for synchronization.

Or

   (b) Elaborate about the working mechanism of any one concurrent programming language.

Turn over

V. (a) Discuss in detail about the working of Inter-process communication and coordination in a distributed system.

Or

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

VI. (a) Explain in detail about distributed process implementation mechanisms.

Or

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

(4 × 10 = 40 marks)