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D 23218 **(Pages : 2)** **Name.....**

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SEVENTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION DECEMBER 2011

CS/IT 04 703—DISTRIBUTED SYSTEMS

(2004 Admissions)

Time : Three Hours Maximum : 100 Marks

Part A

Answer **all** *questions.*

I. (a) What do you mean by access Transparency and concurrency Transparency in a distributed system ?

(b) What is distributed computing environment ?

(c) Compare and contrast threads and process.

(d) Explain the synchronisation issues.

(e) Explain a algorithm to achieve mutual enclusion.

(f) Explain the function of DNs.

(g) Explain about the replacement strategy in distributed shared memory.

(h) What is static process scheduling ?

(8 × 5 = 40 marks)

Part B

II. (a) Explain the various distributed system architectures. (15 marks)

Or

(b) (i) What are the advantages of distributed system over traditional time-sharing system ? (7 marks)

(ii) Write short notes on Parallel Processing Systems. (8 marks)

III. (a) Explain the operation of the client server model of a distributed system. (15 marks)

Or

(b) (i) Explain the applications of thread. (7 marks)

(ii) Describe the user space and Kernel space thread implementation. (8 marks)

IV. (a) Explain the message passing communication :

(i) Protocol. (7 marks)

(ii) Discuss about request/reply communication. (8 marks)

Or

Turn over

(b) Write short notes on :

(i) Transaction communication. (7 marks)

(ii) Bully algorithm. (8 marks)

V. (a) Explain in detail about distributed computer security and its mechanisms.

Or

(b) Explain the distributed process scheduling. (15 marks)

[4 × 15 = 60 marks]