

Con. 5645-08.

(REVISED COURSE)

RC-7667

(3 Hours)

[Total Marks : 100

- N.B.** (1) Attempt any **five** questions.
 (2) **Figures** to the **right** indicate **full** marks.
 (3) **All** question carry **equal** marks.

1. (a) Compare Multi Computer Systems with Multi Processor Systems ? 10
 (b) What are the various forms of Message-Oriented Communication ? Give example of each. 10
 2. (a) Explain Code Migration and the role of Mobile agents ? 10
 (b) Explain the process of Remote Method Invocation using stubs/proxy/skeleton. 10
 3. (a) What is Totally Ordered Multicasting ? How Lamport Clock is implemented ? 10
 (b) Explain architecture of DNS and also Name Resolution. 10
 4. (a) Explain Distributed algorithm for Mutual Exclusion. What are its advantages/disadvantages over Centralized algorithms ? 10
 (b) Compare NOS with DOS and middleware. 10
 5. (a) Explain Vertical and Horizontal services of CORBA. 10
 (b) Explain the difference between Data Centric and Client Centric Consistency Models. Explain one scheme of each. 10
 6. (a) What is failure semantics explain wrt to RMI ? 10
 (b) Explain how Distributed Transaction Management is achieved. 10
 7. Write short notes on (any **four**) :— 20
 - (a) SSP chains for Mobile Entities
 - (b) Issues in Parameter Passing in RMI/RPC
 - (c) Process Vs. Thread
 - (d) CODA File Systems
 - (e) Object Adapter.
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