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 **10**
   of each.

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/ **10**
   disadvantages over Centralized algorithms ?
   (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. **10**
   Explain one scheme of each.

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.