

Con. 2659-09.

Lib.

BE (Comp) VIII (R)
Distributed Comp
(REVISED COURSE)

29/05/09

11-2

VR-4185

(3 Hours)

[Total Marks : 100

N.B. : (1) Question No.1 is **compulsory**.(2) Attempt any **four** questions out of remaining **six** questions.(3) **Figures** to the **right** indicate **full** marks.(4) **All** questions carry **equal** marks.

1. (a) What are different goals of a distributed system ? Explain how are these 10 goals implemented in a distributed system.
- (b) Explain Code Migration. Explain various design issues related to Code Migration 10 in a distributed system.
2. (a) Explain relevance of Co-ordinator in a distributed system. Explain Election 10 Algorithms.
- (b) Explain various security issues in a distributed system. 10
3. (a) Compare and contrast various approaches for Mutual Exclusion in Distributed 10 System.
- (b) Explain RPC Mechanism. Explain RPC semantics in presence of failures. 10
4. (a) What is Name Resolution ? Explain various ways of Name Resolution. 10
- (b) Compare Data-centric and client-centric consistency models. Explain any 10 one consistency model of each type.
5. (a) Explain various forms of message-oriented communication with suitable example 10 application of each.
- (b) Explain relevance of Global State. Explain the process of obtaining Global 10 State.
6. (a) Explain the process of synchronization w.r.t. physical and logical clocks. 10
- (b) Explain CORBA and its architecture. 10
7. Write notes on any **three** :- 20
 - (a) CODA File System
 - (b) FIPA Agent Architecture
 - (c) Mobile Agents
 - (d) Fault Tolerance.