Con. 3232-10.

AN-3148

[Total Marks: 100

D. C. Hours)
- Computing
- six qu 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.

1.	(a) What is CORBA? Explain its general architecture.	10
	(b) Explain RPC mechanism. Explain RPC semantics in case of failure	10
2.	(a) What are the different goals of distributed system? Explain how are these	10
	goals implemented in the distributed system	
	(b) Compare NOS and DOS with suitable diagram	10
3.	(a) What is totally ordered multicasting ?How Lamport clock is implemented	10
	(b) Explain the need for Co-ordinator in distributed system. Explain the election	10
	algorithm.	
4.	(a) What are the various forms of message oriented communication? Give	10
	example of each.	
	(b) Explain attacks and security threats in distributed system.	10
5 .	(a) Explain code migration and role of mobile agents.	10
	(b) Explain the process of concurrency control using pessimistic and optimistic	10
	time stamp ordering.	
6.	(a) What is name resolution? Explain various ways of name resolution.	10
	(b) Explain distributed algorithm for mutual exclusion . What are the advantages	10
	and the disadvantages of it over centralized algorithms.	
	7. Write notes on: (any two)	20
	i) CODA file system.	
	ii) Fault tolerance.	
	iii) Parameter passing in RMI.	
	iv) NFS file system.	