FACULTY OF ENGINEERING

B. E. 4/4 (CSE) I-Semester (Old) Examination, July 2010

Subject : **Distributed Systems**

Time : 3 Hours   Max. Marks: 75

Note: Answer all questions from Part-A. Answer any Five questions from Part-B.

Part – A (25 Marks)

1.   What are the different systems goals?

2.   What is meant by a software agent?

3.   Define DNS.

4.   What is meant by mobile entity? How to locate it?

5.   What is mutual exclusion in distributed systems?

6.   Explain the possibility of implementing strictly consistant memory in a multiprocessor has a single bus.

7.   Explain Globe and D.Com.

8.   Draw a diagram showing CODA file system aspects.

9.   Explain role changes in an access control matrix.

10.   What is distributed shared memory? Explain.

Part – B (50 Marks)

11.a) Disucss the goals of distributed systems.

   b) Briefly discuss code-migration in distributed systems.

12.   What are different election algorithms? Explain.

13.   Explain data centric consistency model.

14.   What is a distributed object based system? Explain with help of CORBA.

15.   What are different memory coherence algorithms for distributed shared memory? Explan.

16.   Explain the recovery process in distributed systems using checkpointing and message logging.

17.   Write short notes on :
   a) Time stamping
   b) Adaptive algorithms
   c) Access control matrix
   d) Logical clock

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