

Code No: P32051

RA

III B.Tech. II Semester Regular Examinations, April/May - 2013

ADVANCED OPERATING SYSTEMS

(Common to Computer Science and Engineering and Information Technology)

Time: 3 Hours

Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain the phases in evolution of operating systems. Discuss the needs for distributed operating systems.
(b) Draw and explain the program flow of control with and without interrupts.
2. Discuss the design issues for a distributed operating system.
3. (a) When do we use Election Algorithms in distributed Systems? Discuss various election algorithms.
(b) Explain the Properties & primitives of transactions.
4. Explain about Deadlocks in Distributed Systems.
5. (a) Write a short notes on various models in thread usage.
(b) What is a Real-Time distributed System? Compare and contrast Hard & Soft real time systems.
6. (a) Define naming transparency in Distributed file system? Discuss the common approaches to file and directory naming in distributed systems.
(b) Discuss the ways that the file servers and directory servers organized internally.
7. (a) Write short notes on any two consistency models.
(b) What is LINDA? How it is related to Object –based Distributed Shared memory?
8. Discuss the following with respect to MACH
 - (a) Process Management in MACH
 - (b) Process Scheduling
 - (c) Primitives for managing ports

