

Code : 06MC202

MCA II Semester Supplementary Examinations, August 2010
OPERATING SYSTEMS

(For students admitted in 2006, 2007 & 2008 only)

Time: 3 hours

Max Marks: 60

Answer any FIVE questions
All questions carry equal marks

1. What the operating system services that provides functions helpful to the use? Explain.
2. (a) Define process. Draw the process state diagram and explain.
(b) Explain the criteria for evaluation of CPU scheduling algorithms.
3. Compare and contrast paging and segmentation.
4. (a) Explain in detail about tree-structured directories. What are its advantages and disadvantages?
(b) Discuss contiguous allocation method, mentioning its advantages and disadvantages.
5. What is a semaphore? Give the solution to the dining-philosophers problem using semaphores and explain.
6. What is deadlock? Explain Banker's algorithm for deadlock avoidance with an example.
7. (a) Explain how process management is done in Unix.
(b) Describe Unix File system.
8. (a) Mention the design principles of Linux system.
(b) Describe inter process communication in Linux.
