



Code No. : 6211

FACULTY OF ENGINEERING
B.E. 2/4 (CSE) II Semester (Supple.) Examination, December 2009
OPERATING 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 two events can cause a process to loose control of the processor ? 2
2. Differentiate between preemptive and non-preemptive scheduling. 2
3. What elements are typically found in a page table entry ? Briefly define each element. 3
4. Discuss the criteria for choosing a file organization. 2
5. What is binary semaphore ? Where binary semaphore is used ? 3
6. Give the necessary conditions for occurrence of deadlock. 3
7. What is I/O buffering ? Explain different types of buffers. 3
8. What is the advantage of SSTF algorithm over simple scan algorithm ? 3
9. List the different types of I/O in UNIX. 2
10. List the objects of windows concurrency. 2

PART – B

(50 Marks)

11. a) Describe the concept of Process and Process Control Block (PCB). 4
b) Discuss the short term, medium term, long term scheduling process. 6
12. a) Describe various file allocation methods. 5
b) Write short notes on inverted page table. 5
13. a) How the deadlocks can be avoided ? Explain with the help of necessary algorithm. 6
b) What are the necessary requirements for mutual exclusion ? 4



14. a) Distinguish between STREAMS driver and STREAMS module. 4
- b) Write about any two file allocation methods. 6
15. a) Explain about process management in Linux. 5
- b) Explain about Windows XP labeled architecture. 5
16. Write short notes on any two : (5+5)
 - a) Distributed operating system.
 - b) Swap-space management in disks.
 - c) Segmentation with paging.
17. a) Explain different ways of recovery from deadlocks. 6
- b) Differentiate between system call and library routine. 4