

Code No: 07A60501

R07

Set No. 1

III B.Tech II Semester Regular/Supplementary Examinations, May 2010
Operating Systems
Computer Science And Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Write short notes on:
 - (a) Monitor
 - (b)starvation. [8+8]
2. What are the services that are provided by the kernel related to I/O? Write about the kernel I/O subsystem in detail. [6+10]
3. Explain various Disk scheduling algorithms with an example. [16]
4. (a) Explain the differences between user-level threads and kernel-level threads.
(b) Describe the single-blocked queue and multiple-blocked queues with an example. [8+8]
5. (a) Explain the various password selection strategies.
(b) Discuss about UNIX password scheme. [8+8]
6. Write short notes on:
 - (a) Sequential file
 - (b) Indexed file
 - (c) Indexed sequential file
 - (d) Direct file. [4+4+4+4]
7. (a) What is the relationship between FIFO and clock page replacement algorithm?
(b) What is the difference between resident set management and page replacement policy? [8+8]
8. How security and protection services are managed by an OS? What is the main purpose of system call and system program. [16]
