

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. (a) Explain the flaws in one-way encryption of password strategy.
 (b) Write a brief note on intrusion detection.
 (c) Write about intruders. [8+4+4]
2. Explain the following allocation algorithms:
 (a) First fit
 (b) Best fit
 (c) Worst fit. [5+5+6]
3. What is a semaphore? Explain its usage in readers - writers problem. [16]
4. Consider the following snapshot of a system. Answer the following questions using the bankers algorithm.

	Allocation A B C D	Max A B C D	Available A B C D
P0	0012	0012	1520
P1	1000	1750	
P2	1354	2356	
P3	0632	0652	
P4	0014	0656	

- (a) What is the content of matrix need?
 (b) Is the system in a safe state?
 (c) If a request from process P1 arrives for (0, 4, 2,0) can the request be granted immediately? [16]
5. (a) Discuss shortest-process-next scheduling with an example.
 (b) Describe various short-term scheduling policies. [8+8]
6. (a) What are pre-allocation, dynamic allocation, partition size with respect to secondary storage management?
 (b) Describe various file allocation methods briefly. [8+8]
7. Discuss the reasons why operating system might require accurate information on how blocks are stored on a disk. How can the OS improve the performance of the file system with this knowledge? [16]

Code No: 07A60501

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Set No. 2

- 8.(a) List out the various functions of operating system.
(b) Explain how protection is different from security. [8+8]
