

SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act, 1956)

Course & Branch: B. Tech – IT

Title of the paper: Operating Systems

Semester: IV

Sub.Code: 6C0063

Date: 02-05-2008

Max. Marks: 80

Time: 3 Hours

Session: FN

PART – A

(10 x 2 = 20)

Answer All the Questions

1. What is an operating system? Name any four.
2. What is seek time?
3. Define mutual exclusion.
4. What is the use of monitors?
5. Give any four different file types.
6. What is page fault?
7. Distinguish multitasking and multiprogramming.
8. What do you mean by working set?
9. What is the difference between absolute and relative path name in Unix?
10. List any two disadvantages of Distributed systems.↓

PART – B
Answer All the Questions

(5 x 12 = 60)

11. (a) Discuss the different types of operating system.
(b) Explain the function of an operating system from the point of view of a system programmer.
(or)
12. Explain the evaluation of scheduling algorithms.
13. Explain about preemptive and non preemptive strategies.
(or)
14. What is monitor? Explain monitor construct for producer – consumer problem.
15. With example of your own explain any three page replacement algorithms.
(or)
16. Explain (a) Deadlock recovery methods. (8)
(b) Semaphores. (4)
17. (a) What are the operations are performed on a directory. (2)
(b) Explain acyclic – graph directory and general graph directory structure. (10)
(or)
18. Explain how virtual address translation is done using combined associative / direct mapping in a paged and segmented system.
19. Discuss the salient features of UNIX operating system.
(or)
20. Explain in detail about the Unix file system.

