

BCR/M 16
OPERATING SYSTEM-II
PAPER-BCA-362

Note : Attempt five questions in all, selecting at least one question from each Unit Q. No. 1 is Compulsory.

1. Compulsory Question :

- (i) Explain advantages and disadvantages of single level and two level directories.
- (ii) Define seek time and latency time.
- (iii) Explain logging in and logging out of linux.
- (iv) Describe the structure of file system in Linux briefly.
- (v) Write a short note on I/O in shell.

Unit-1

- 2. (a) Explain two process solutions for critical sections.
 - (b) Explain Deadlocks and Starvation problem in semaphore.
 - (c) Write a short note on Critical Regions.
- 3.(a) Explain in detail the concept of Monitor. What are its characteristics?
- (b) Explain Acyclic Graph Directory and General Graph Directory. Also explain its advantages and disadvantages.

Unit-II

- 4. (a) Explain FCFS and SCAN disk scheduling algorithm by using suitable example.
 - (b) Write short note on the following.
 - (i) Disk Implementation
 - (ii) Book Block.
5. Define distributed system. What are the advantages of distributed systems? Also explain Data Migration. Computation Migration and Migration Concepts.

Unit – III

- 6. (a) Explain Linux Architecture. Also explain how Linux is different from Window and Unix.
- (b) Explain the following commands in Linux.
 - (i) cal
 - (ii) man
 - (iii) factor
 - (iv) bc.

