

BCA/D 16
OPERATING SYSTEM
PAPER-BCA-352

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

Compulsory Question:

1. (a) Differentiate Real Time and Distributed OS.
(b) Define Swapping.
(c) Define Single User and Multi-user OS. Give two examples of each.
(d) What is Round-Robin fashion? Discuss its role.

Unit-I

2. Explain various Management functions performed by operating system.
3. (a) Explain concept of system calls.
(b) Discuss Time-sharing, Serial and Multiprogramming OS.

Unit-II

4. Explain Processor scheduling and Multiple processor scheduling.
5. (a) Define Deadlock and Deadlock avoidance
(b) Define Process state and PCB.

Unit-III

6. Explain critical section problem and discuss with two examples usage of Semaphores.
7. Explain Paging and Page-Replacement Algorithms.

Unit-IV

8. (a) Explain file allocation methods.
(b) Discuss DIRECTORY and various DIR structures.
9. Write short notes on the following :
(a) Disk Scheduling.
(b) Interprocess Communication.