- JUN 2006

## Subject Code 4256

P.G.D.C.A. EXAMINATION

June 2006

(Second Semester)

MS-08

## OPERATING SYSTEM

Time: 3 Hours Maximum Marks: 100

Note: Attempt any Five questions. All questions carry equal marks.

- (a) Define Operating System. Discuss the evolution process of operating systems. 12
  - (b) Write short notes on Distributed Operating System and Parallel Operating System. 8
- (a) What do you understand by File System?
  Explain the various allocation methods.

15

(b) What is a directory? Discuss the attributes of a directory entry.

P.T.O.

- What is the criteria of scheduling algorithms evaluation? Discuss different CPU scheduling algorithms.
- What is Demand Paging? Explain the page replacement algorithms.
- Explain the different Disk Scheduling algorithms. How would you select a disk scheduling algorithm?
- What is a Deadlock? Explain the procedure of deadlock detection and recovery.
- 7. Define Critical Section Problem. How would you synchronize the interprocess communication?
- 8. Write short notes on the following:
  - (a) Multiple Processor Scheduling
  - (b) Thrashing
  - (c) Sector queeing in Disk Scheduling
  - (d) Safe State in deadlock avoidance
  - (e) Properties of Linux Operating System.

 $4 \times 5 = 20$ 

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