

# Operating System

Time → 2 : 30 hrs.

Maximum marks  
→ 50

- (1) Attempt any two of the following : (2X5)
- Explain various operating system services in details.
  - What are Batch systems? Explain.
  - What do you mean by time sharing system?
- (2) Attempt any two : (2X5)
- What is file? Explain various file attributes?
  - Give any three functions of file system.
  - Explain single-level directory structure.
- (3) Attempt any two of the following : (2X5)
- What are schedulers? Discuss various types of schedulers.
  - Explain Round Robin CPU scheduling with an example.
  - Describe FCFS scheduling with an example.
- (4) Attempt any two : (2X5)
- Describe multiple partitioning memory allocation scheme.
  - What are deadlocks? Explain the necessary condition to occur deadlock?
  - What are the methods involved in recovery from deadlock?
- (5) Attempt any two short note : (2X5)
- SSTF disk scheduling.
  - Demand paging.
  - Deadlock avoidance.