2002 CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING(C-DAC) M.C.A

END-TERM EXAMINATION
THIRD SEMESTER [MCA] - DECEMBER 2002
Paper Code: MCA 201

OPERATING SYSTEM

Time: 3 Hours
Marks: 70

Q. 1.
(a) Define User, Job and process. Explain the relation between user, job process and address space.

(b) List benefit of spooling. Give one sentence explaining of each. Is spooling feasible for all types of I/O devices?

Q. 2. Define following terms (Any four)
(a) Multiprogramming (b) Protection Hardware (c) Job Scheduler

(d) Interrupt hardware (e) Process Scheduler (f) Virtual Memory

(g) Primary Memory

Q. 3. What are functions of memory management in operating system? List techniques used for memory management.

Q. 4. Describe multiprogramming with the help of example. Give list of memory management technique used for programming.

Q. 5. Explain the role of operating system as resource manger.

Q. 6. Describe single contiguous allocation method. List advantages and disadvantages of this method.

Q. 7. Describe Demand page memory management technique along with advantages and disadvantages.

Q. 8. What are various page removal technique used for memory management? Explain any two techniques.

Q. 9.
(a) Explain Job Scheduling and list function of job scheduler.
(b) Explain process scheduling and list functions of process scheduler.

Q. 10. Describe the need of device management. Explain techniques used for managing and allocating devices.

Q. 11. What are Direct Access Storage Devices? Give example and explain one of them with diagram.