

00493
First Year B. C. A. Examination
October / November - 2002
Operating Systems

Seat No.

Time : Hours]

[Total Marks : 70

Instruction : Figures to the right indicates full marks.

1 Answer the following.

10

- (a) List out the operating systems that are multi tasking but not multi user.
- (b) What is a primary goal of Operating System?
- (c) What do you mean by IVT?
- (d) Which information is stored in a pointer block of PCB?
- (e) What do you mean by system calls?
- (f) List out some protocols used in novell NetWare.
- (g) If you want to know the list of user currently working on novell Netware, which command should be used?
- (h) State the difference between Process and Thread.
- (i) What is the use of ntlldr?
- (j) State the difference between shell and kernel.

2 (i) Discuss the evolution of operating systems. 8

(ii) Explain context switching. 7

OR

(i) Discuss the work of MMU in detail. 8

(ii) Explain process state transition. 7

3 (i) Discuss the ways of contiguous memory allocation and explain any one of them in detail. 8

(ii) Explain single partition memory allocation. 7

OR

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- Q3 (i) What do you mean by virtual memory? In case of 7
memory management when page fault occurs?
Describe the actions taken place by the operating
system when a page fault occurs.
- (ii) Discuss minimum four criteria that are used in CPU 8
scheduling.

- Q4 (i) Discuss features of windows-NT server. 7
- (ii) Explain following commands with its syntax. 8
tty ps who lock

OR

- Q5 (i) Explain features of UNIX operating system. 7
- (ii) Explain following commands with its proper syntax. 8
flag salvage touch format

5 Write short notes. [Any Three] 15

- 134 1. Deadlock
2. IPX/SPX
3. TSR Programs
Q 4. Interprocess communication
135 5. Segmentation