

SVK/KW/11 - 2199

First Semester Master of Computer Application (M. C. A.) Examination

1 CSA - 3

OPERATING SYSTEM

Time : Three Hours] [Max. Marks : 80

N. B. : All questions are compulsory and carry equal marks.

1. EITHER

- (a) What is an Operating System ? Explain operating system as a Resource Manager. 8
- (b) Discuss batch processing system, Multiprogramming and multitasking. 8

OR

- (c) What are Virtual Machines ? Explain in detail structure of VM/370. 8
- (d) Discuss the third and fourth generation of Operating System. 8

2. EITHER

- (a) What is process ? Explain in detail process creation. 8
- (b) What are Threads ? Explain a multithreaded web server. 8

OR

- (c) Explain how a process-structured operating system handles interrupts and scheduling. 8
- (d) Explain the implementation of threads in user space. 8

3. EITHER

- (a) Discuss in detail different types of file operations. 8
- (b) Explain in detail the file structure and its different types. 8

OR

- (c) Explain file system layout in detail. 8
- (d) Write in detail different types of directory system in operating system. 8

4. EITHER

- (a) Explain in brief history of UNIX. 8
- (b) Discuss booting of UNIX system in detail. 8

OR

- (c) Write in detail about Kernel Structure in UNIX system. 8
- (d) Explain the layers in a UNIX system. 8

5. EITHER

- (a) Write detailed note on Windows Operating System structure. 8
- (b) Explain scheduling in Windows 2000. 8

OR

- (c) Explain fundamental concepts of memory management in Windows 2000. 8
- (d) Explain Input / Output API Calls in Windows. 8

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