

IV B.Tech II Semester Regular Examinations, Apr/May 2006

UNIX AND WINDOWS NT
(Electrical & Electronic Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain the structure of UNIX operating system with a neat diagram and discuss them.
(b) What are the basic tools available in the UNIX operating system? Explain them in detail. [8+8]
2. (a) Define file. What are the advantages of Files?
(b) Explain about the Directory files. [8+8]
3. List the various operations needed in handling a file and explain with examples. [16]
4. What are the different functions of shell and explain with examples [16]
5. Explain in detail about the various filters in unix? [16]
6. Devise a script that creates a lock file which prevents more than one user from running it. The lock file must be removed before script termination or if the user presses the interrupt key. [16]
7. How to create primary and extended partitions and logical drives on a hard disk? [16]
8. Explain the various server applications. [16]

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1. What are the basic components of UNIX operating system and discuss them in detail. [16]
2. Write short notes on the following
 - (a) File system
 - (b) i-nodes
 - (c) File descriptor [6+5+5]
3. Mention and explain the different file commands with examples. [16]
4.
 - (a) List four main uses of shell programming
 - (b) List and explain the character set permitted for naming the variables in shell scripts.
 - (c) Explain about the file name substitution [4+8+4]
5.
 - (a) What is a metacharacter? Explain the various meta characters available in unix.
 - (b) Explain the following redirect shell symbols with an example each: >, >>, <. [8+8]
6.
 - (a) Explain the command line arguments and positional parameters in unix.
 - (b) Write a shell script to display the menu with the following options 1. list of files 2. List out directories. [8+8]
7. What is meant by Windows NT backup? Explain different types of backups in detail. [16]
8. Discuss the various alternatives to the user sessions for connection and disconnection. [16]

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1. (a) Discuss about the File handling utilities.
(b) Explain the modes of Screen editor. [8+8]
2. (a) Define file. What are the advantages of Files?
(b) Explain about the Directory files. [8+8]
3. List the various operations needed in handling a file and explain with examples. [16]
4. (a) Write short notes on:
 i. Executable file version
 ii. Built in commands
(b) Write about shell programming [8+8]
5. (a) How will you use pr,sort and cut to read a files lines in reverse order?
(b) Devise a pipeline sequence, which lists the five largest files in the current directory. [8+8]
6. (a) Write a shell program to find factorial of a given number.
(b) Explain untildo.....done construct in UNIX shell programming. [8+8]
7. Enumerate and explain various Windows NT server compatibilities. [16]
8. Discuss the properties of a user manager in creating the domains. [16]

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1. Explain the detailed procedure of Screen editing. [16]
2. Write short notes on the following
 - (a) File system
 - (b) i-nodes
 - (c) File descriptor [6+5+5]
3.
 - (a) List the two provisions in unix for creating files
 - (b) List the categories of unix users for the purpose of security or access permission [8+8]
4.
 - (a) Explain with example how shell variables are included in regular expressions
 - (b) Explain about file name substitute and give an example. [8+8]
5.
 - (a) Write short notes on various Shell operations
 - (b) What is meant by back ground processing and explain with one example? [8+8]
6. What happens if a process receives several instances of the same signal before it can handle the first instance? Would other semantics be more useful for this situation? [16]
7. Explain about Windows NT architecture in detail. [16]
8. Discuss the properties of a user manager in creating the domains. [16]
