

IV B.Tech. II Semester Regular Examinations, April/May -2005

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.
2. Write short notes of the following
 - (a) File system
 - (b) i-nodes
 - (c) File descriptor
3. List the various operations needed in handling a file and explain with examples.
4. What are the different functions of shell and explain with examples
5. (a) What is the difference between background process and foreground process?
(b) Write briefly about killing processes.
6. Explain about the operators that are used in the formation of conditional expressions.
7. Explain the following in detail.
 - (a) Free space
 - (b) logical partitions
 - (c) Disk Administrator
8. Explain the following.
 - (a) Object manager
 - (b) process manager
 - (c) virtual memory manage

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1. (a) Explain the main features of UNIX operating system.
(b) Explain how the UNIX operating system manages the sharing of resources.
2. What are the different types of files in UNIX Operating System? Explain each of them in detail.
3. Create a file, file1 using cat command and copy file1 to file2 using cp command check the contents of file1 and file2 using cat command and no.of characters, words and lines in file1 and file2 using wc and comment.
4. (a) Write short notes on:
 - i. Executable file version
 - ii. Built in commands(b) Write about shell programming
5. (a) Write the difference between a relative pathname and an absolute pathname.
(b) How do you view the contents of a file in the shell prompt?
6. (a) Write a small shell-script to count the number of users who are currently logged-in.
(b) How can a default value be captured in a case construct? Give an example.
7. (a) Distinguish between software and hardware RAID.
(b) Explain how disk administrator creates the stripe set under Windows NT.
8. Discuss the following in detail.
 - (a) single domain model
 - (b) single master domain model.

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1. Explain the detailed procedure of Screen editing.
2. (a) In what way a File is different from a Directory.
(b) Explain about ordinary Files.
3. (a) Explain about hierarchical directory structures
(b) Explain counting the no. of words in a file with one example
4. (a) List four main uses of shell programming
(b) List the character set permitted for naming the variables in shell scripts and explain.
(c) Explain about file name substitution
5. (a) What is the difference between background process and foreground process?
(b) Write briefly about killing processes.
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.
7. What is a virus? Explain the different types of viruses. How can you protect your Windows NT system from viruses?
8. Explain various responsibilities of remote server manager.

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1. (a) Explain about the cursor movement commands vi editor with examples.
(b) Classify the various editors and explain them with an example.
2. What are the different types of files in UNIX Operating System? Explain each of them in detail.
3. (a) Create a file and give only execute permission to your group members and others
(b) Create a file and change the ownership then change its permissions
(c) Find and delete all files with the word "good "
4. (a) Explain with example how shell variables are included in regular expressions
(b) Explain about file name substitute and give an example.
5. Write short notes on
(a) Background processing
(b) foreground processing
6. (a) Explain about the trap command in shell programming.
(b) Explain the for, while and until loop constructs in shell script.
7. Explain about the backup disk administrator and list out at least four backup commands.
8. How can you convert FAT to NTFS?
