

IV B.Tech II Semester Regular Examinations, Apr/May 2008
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 main features of UNIX operating system.
(b) Explain how the UNIX operating system manages the sharing of resources. [16]
2. Explain the following commands with examples:
(a) Listing Files
(b) Copying File
(c) Linking a File
(d) Displaying the contents of a File [4+4+4+4]
3. Explain about various file comparison commands [16]
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) How will you use pr,sort and cut to read a file's 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 script to find the factorial of the given number?
(b) Discuss the following shell scripts. What is their respective outputs.
 - i. for file
do
pr \$file|lpr
done
exit 0
 - ii. for var in \$PATH \$HOME \$MAIL
do
echo "\$ var"
done [8+8]
7. Explain the following:
(a) Free space logical partitions.
(b) Logical Drive
(c) Volume set [6+5+5]

Code No: RR420205

Set No. 1

8. Discuss the design issues of a remote server manager. [16]

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1. What are the basic components of UNIX operating system and discuss them in detail. [16]
2. Explain the following commands with examples:
 - (a) Creating a Directory
 - (b) Copying a File from one directory to another.
 - (c) Moving files between directories.
 - (d) Deleting a directory. [4+4+4+4]
3. Explain the following commands with examples
 - (a) chgrp
 - (b) chmod
 - (c) chown [6+5+5]
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. Explain in detail about the various filters in unix? [16]
6. Suppose a process has two signals pending and has declared handlers for each of them. How does the kernel ensure that the process handles the second signal immediately after handling the first? [16]
7. How the RAID drive sub system can provide the fault tolerance? [16]
8. What are the necessary points to be considered in choosing the type of a file system for your server? [16]

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1. (a) How do you achieve communication in UNIX operating system? Explain in detail.
(b) Explain the architecture of UNIX operating system. [8+8]
2. Explain the following commands with examples:
(a) Creating a File
(b) Copying a File
(c) Renaming a file
(d) Deleting a File. [4+4+4+4]
3. (a) List the operations that can be carried out in a file when one has
 - i. Read permissions,
 - ii. Write permissions
(b) Describe in detail about two measures used in unix to change access permission [8+8]
4. (a) Explain different redirection parameters and explain
(b) Write about shell variables [8+8]
5. (a) What is the output of the following commands?
 - i. \$ls?
 - ii. \$lsch[123789]*
 - iii. \$ls -lch?.1
 - iv. \$ls\?
(b) Explain the following shell program and give the details of the output it produces.
mkdir junk
for I in 1 2 3 4 5
do echo hello > junk/\$I
done [8+8]
6. (a) What will this construct do and why ? While [5]
(b) How will you make sure that a script prompts you before exiting on interruption? [8+8]

7. What is a virus? Explain the different types of viruses. How can you protect your Windows NT system from viruses? [16]
8. What are the necessary steps to be taken in designing the server hardware? [16]

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1. (a) What is the difference between Hardware and Software?
(b) List out the main functions of the Kernel. [6+10]
2. Write short notes on the following
(a) File system
(b) i-nodes
(c) File descriptor [6+5+5]
3. (a) Create a file and give only execute permission to your group members and others
(b) Create a file and change the ownership and its permissions
(c) Find and delete all files with the word "good " [5+5+6]
4. (a) Explain different redirection parameters and explain
(b) Write about shell variables [8+8]
5. (a) If you have a file X.C with permission 777 how will you change the permission to owner-rwx,group-rx and others-r?
(b) When will you use the commands "expr"? Describe with an example. [6+10]
6. Devise a script that accepts two directory names bar1 and bar2 and deletes those files in bar2 which are identical to the names in bar1. [16]
7. Explain various RAS application. [16]
8. Discuss the following in detail.
(a) multiple master domain model
(b) complete trust domain model. [8+8]
