

III B.Tech II Semester(R05) Supplementary Examinations, May 2010

UNIX PROGRAMMING

(Common to Computer Science & Engineering and Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Explain the UNIX file system structure. Discuss with appropriate diagram and examples. [16]
2. Write a short notes on following commands.
 - (a) cat
 - (b) join
 - (c) tr
 - (d) cpio. [16]
3. (a) Write a shell script to take two numbers as arguments and output their sum using:
 - i. bc
 - ii. expr.include error-checking to test whether two arguments were entered.
(b) Write a shell script that behaves both in interactive and non-interactive mode. when no arguments are supplied, it picks up each C program from the current directory and lists the first 10 lines. It then prompts for deletion of the file. If the user supplies arguments with script, then it works on those files only. [8+8]
4. (a) Write a shell script which gets executed the moment the user logs in. It should display the message "good morning/good afternoon/good evening" depending upon the time at which the user logs in.
(b) Explain about here documents with an example. [8+8]
5. Write the syntax of following system calls.
 - (a) open
 - (b) creat
 - (c) read
 - (d) write. [16]
6. (a) What is process control explain briefly.
(b) Write about zombie process. [16]
7. (a) Write a program to illustrate file locking.
(b) Write a program on simple memory allocation. [8+8]
8. (a) Explain in detail about msgsnd system call.
(b) Explain in detail about msgrcv system call [8+8]
