

III B.Tech I Semester(R07) Regular Examinations, December 2009
UNIX AND SHELL 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. (a) Why unix commands are simpler rather than complex tasks.
(b) Describe the escaping characters in unix. [8+8]
2. Explain security features in UNIX. [16]
3. (a) What do the following UNIX system variables signify?
 - i. HOME
 - ii. PS1
 - iii. PS2
 - iv. PATH
 - v. TERM
 - vi. MAILCHECK.(b) How does shell executes external commands? [8+8]
4. Describe the following sed related topics with suitable example:
 - (a) Script file
 - (b) Restricting Lines
 - (c) Reading and Writing Files
 - (d) Change Command
 - (e) Prohibiting the Display
 - (f) Deleting Lines
 - (g) Appending and Inserting Text
 - (h) Labels and comments. [16]
5. (a) Write a script that changes the first three letters of the name of all files to lowercase letters.
(b) Explain the concept pipelining with example. [8+8]
6. (a) What are different control actions? Eexplain them.
(b) Describe the similarities and differences between the next statement and the getline function. [8+8]
7. (a) Create a script that reads the content of a message file to everybody who logged in.
(b) What would be printed from the following script segment? Explain. [8+8]

```
set x= "1 3 5"  
for each i ($x)  
echo hello  
end
```
8. (a) What are different expressions used by chmod command?
(b) Explain the following:
 - i. The octal notation
 - ii. Recursive operation. [8+8]