

Unix Operating System

Time 3 Hours]

[Max. Marks 50

Note : Attempt any two parts from a question. All questions carry equal marks. All parts of a question must be solved at one place only.

1. (a) Explain various features of UNIX Operating System.
(b) Explain the following commands with example :
(i) ls (ii) mkdir (iii) cp (iv) mv (v) rmdir
(c) Explain various modes found in a unix file. How can we change the mode of a file?
2. (a) Explain the difference between the following commands :
(i) Cmp and Comm (ii) tty and stty
(iii) who and who am I.
(b) What is pipelining? Explain with example. Why ``tee" command is always used with pipe?
(c) What do you mean by pattern matching? Explain the pattern matching utilities in UNIX.
3. (a) Explain the following commands with example :
(i) Head (ii) Tail (iii) egrep (iv) tr (v) Sort.
(b) How multiple job are executed in background? Explain.
(c) What do you mean by process status? How to terminate a process which has gone into an infinite loop?
4. (a) Write a shell program to concatenate two strings.
(b) Explain any four commands used for communication and scheduling.
(c) How two way communication is performed in UNIX? Explain.
5. (a) What is strongest level of security provided by UNIX Operating System and how?
(b) Write down and explain each step to create a new user.
(c) Explain various functions of system administrator.

* * *