PVP 14

Code: IT5T1

III B.Tech - I Semester – Regular/Supplementary Examinations
October 2017

UNIX
(INFORMATION TECHNOLOGY)

Duration: 3 hours Max. Marks: 70

PART – A

Answer ***all*** the questions. All questions carry equal marks

11x 2 = 22 M

1.

a) Differentiate between relative and absolute path names.
b) Discuss **script** and **stty** commands.
c) Explain step by step in terms of stdin and stdout, what the following UNIX command does:
ls –l ../UnixMat | grep "^d" >> UnixMatList 2> Mylog
d) 'Shell in a UNIX system is an interface between the user and the system'. Comment.
e) Write a shell script to display the greatest of three numbers.
f) How will you retrieve the file status?
g) Demonstrate the following:
i) stat ii) fstat.
h) 'The fork() is used to spawn a new process'. Comment.
i) Differentiate Kill & Raise functions.
j) Differentiate named pipes and unnamed pipes.
k) Define unreliable signal.

PART – B

Answer any ***THREE*** questions. All questions carry equal marks.
3 x 16 = 48 M

2.a) Explain the architecture of UNIX system with neat diagram. 8 M

b) Discuss navigation and text editing options available in Vi Editor. 8 M

3.a) Discuss with examples the mechanisms for String Handling and Command Line arguments in Shell environment. 8 M

b) Discuss Input, output and error redirection with suitable examples. 8 M

4. Explain the different functions of File I/O. 16 M

5.a) How to terminate the process? Write the different options available for termination. 8 M

b) Explain the data structures used by the kernel when a process is loaded. 8 M

6. Explain in detail about FIFO concept with examples. 16 M