PVP 14

Code: IT5T1

III B.Tech - I Semester – Regular Examinations - December 2016

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) Discuss UNIX System Architecture.
b) Compare grep and egrep commands with Example.
c) Demonstrate the following commands i) cut ii)sort
d) Explain the role of pipes in shell scripting.
e) Summarize shell Environment Variables.
f) Write the syntax for stat() system call.
g) Give the structures used for Directory API's.
h) Differentiate Orphan process and Zombie Process.
i) Explain the use of waitpid() system call.
j) Discuss signal functions.
k) Compare pipes and FIFOs.

PART – B

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

2. a) Explain the following commands with examples 8 M
   i) uniq ii) who iii) ls iv) head

   b) Discuss briefly about Process and Disk Utilities in UNIX. 8 M

3. Illustrate Decision Making and Loop control statements in Bourne Shell. 16 M

4. a) Demonstrate all the FILE APIs with a Suitable C program. 8 M

   b) Implement dup and dup2 system calls with an example. 8 M

5. Classify Process APIs and illustrate with examples. 16 M

6. Explain Reliable and unreliable signals. How to implement User-defined Signal handlers? Illustrate with example. 16M