Code: 13A05503

SS

B.Tech III Year II Semester (R13) Regular & Supplementary Examinations May/June 2017
UNIX & SHELL PROGRAMMING
(Computer Science and Engineering)

Time: 3 hours   Max. Marks: 70

PART – A
(Compulsory Question)
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1   Answer the following: (10 X 02 = 20 Marks)
   (a)   Discuss about various modes of vi editor.
   (b)   Write syntax for changing ownership and group name on a given file/s.
   (c)   What is a job? How can we suspend the foreground job?
   (d)   Describe usage of cp and mv commands.
   (e)   Write about the importance of talk command in Unix.
   (f)   What is repetition operator? Describe it.
   (g)   List out features of Born shell.
   (h)   How to debug a shell script?
   (i)   Write about process utilities in Unix.
   (j)   In C shell, how positional parameters are changed?

PART – B
(Answer all five units, 5 X 10 = 50 Marks)
UNIT – I

2   (a)   Explain the structure of UNIX operating system with the help of neat diagram.
    (b)   How to change permissions of a file? Explain with example.
OR
3   (a)   Describe sticky bit to achieve protection for a directory. Also write the steps to set the sticky bit.
    (b)   What is meant by security? Explain the different levels of security provided by UNIX.

UNIT – II

4   (a)   Describe filters and pipes in Linux.   Write a shell script to count the numbers of characters in a file.
    (b)   What are the possible redirection operators? Give an example for each.
OR
5   (a)   What are the different ways that are available to compare the files? Explain them.
    (b)   Write a shell script to count number of words and lines present in each file of a given directory.

UNIT – III

6   (a)   Explain grep family utility with one example for each.
    (b)   Write the differences between sed and awk.
OR
7   Which utility is used to transfer file from client to server or server to client? Explain it with a neat diagram.

UNIT – IV

8   (a)   Write about both input and output statements used in korn shell.
    (b)   Write a shell to demonstrate usage of control flow statements.
OR
9   (a)   Write a shell script to simulate cat and copy commands.
    (b)   Explain the different types of addresses supported by sed.

UNIT – V

10 (a)   Discuss how 'eval' command is executed with example.
    (b)   Write a shell script to reverse any given number
OR
11 (a)   Write a C shell script to print the multiplication table up to the given number
    (b)   Write a shell script to display various file attributes corresponding to it.