CBCS Scheme

USN ☐☐☐☐☐☐☐☐☐☐   **15CS35**

Third Semester B.E. Degree Examination, Dec.2016/Jan.2017
UNIX and Shell Programming

Time: 3 hrs.   Max. Marks: 80

Note: *Answer FIVE full questions, choosing one full question from each module.*

Module-1

1   a. Discuss the salient features of UNIX Operating system.   **(06 Marks)**
    b. Explain the following commands with examples :
       i) echo   ii) ls   iii) who   iv) date.   **(04 Marks)**
    c. Write a note on man documentation and explain the keyword option and what is option?   **(06 Marks)**

OR

2   a. Explain how to display and set the terminal characteristics of a UNIX OS.   **(06 Marks)**
    b. Explain the contents of /etc/passwd and /etc/shadow file with respect to UNIX OS.   **(06 Marks)**
    c. Explain the commands to add and delete a user.   **(04 Marks)**

Module-2

3   a. Explain the different file types available in UNIX.   **(06 Marks)**
    b. With the help of a neat diagram, explain the parent child relationship with respect to UNIX file system.   **(05 Marks)**
    c. Explain the following commands with example :
       i) HOME   ii) cd   iii) pwd   iv) mkdir   v) rmdir.   **(05 Marks)**

OR

4   a. Explain the following commands with example :
       i) cat   ii) mv   iii) rm   iv) cp   v) wc.   **(05 Marks)**
    b. Explain the seven field output of ls - l command.   **(05 Marks)**
    c. What are different ways of setting file permissions?   **(06 Marks)**

Module-3

5   a. Explain the different modes of vi editor.   **(04 Marks)**
    b. Explain how the text is entered and replaced in input mode of vi editor.   **(06 Marks)**
    c. Discuss the navigation commands in vi editor with example.   **(06 Marks)**

OR

6   a. Explain Shell's interpretive life cycle.   **(04 Marks)**
    b. Discuss the three standard files supported by UNIX. Also give details about the special files used for output redirection in UNIX.   **(06 Marks)**
    c. With the help of example, explain grep command and list its options with their significance.   **(06 Marks)**

Module-4

7   a. Explain the shell features of "while" and "for" with syntax.   **(08 Marks)**
    b. Explain with example set and shift commands in UNIX to manipulate positional parameters.   **(08 Marks)**

OR

8 a. Differentiate between hard link and soft link.   (04 Marks)

    b. Explain the following with example :
        i) head   ii) tail   iii) cut   iv) paste.   (08 Marks)

    c. Discuss briefly sort command with its options.   (04 Marks)

Module-5

9 a. Explain mechanism of process creation.   (04 Marks)

    b. Explain the following command :
        i) at   ii) cron   iii) nice   iv) nohup.   (08 Marks)

    c. Explain find command with its options.   (04 Marks)

OR

10 a. Explain the following string handling functions of PERL with examples :
        i) length   ii) index   iii) substr   iv) reverse.   (08 Marks)

    b. With suitable examples, explain split and join functions in Perl.   (04 Marks)

    c. Explain file handling in Perl.   (04 Marks)

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