# CBCS Scheme

USN

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

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

#### OR

- Explain how to display and set the terminal characteristics of a UNIX OS. (06 Marks)
  - Explain the contents of /etc/passwd and /etc/shadow file with respect to UNIX OS.
    - (06 Marks) (04 Marks)

(05 Marks)

Explain the commands to add and delete a user.

## Module-2

- 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

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

#### Module-3

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

#### OR

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

#### Module-4

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

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

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

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

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