# CBCS SCHEME

USN | | | | | | | | | |                     **17CS35**

## Third Semester B.E. Degree Examination, Dec.2018/Jan.2019
## Unix and Shell Programming

Time: 3 hrs.                                                    Max. Marks: 100

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

### Module-1

1  a. By writing a neat diagram, explain the architecture of UNIX.                  **(10 Marks)**
   b. Discuss the following commands
      i) ls   ii) who   iii) cat   iv) echo                                          **(10 Marks)**

**OR**

2  a. Explain the features of UNIX.                                                 **(10 Marks)**
   b. Explain the commands used to add, modify and delete users.                    **(10 Marks)**

### Module-2

3  a. What is a file? Explain different categories of files.                        **(10 Marks)**
   b. By giving example, explain the following commands.
      i) pwd   ii) cd   iii) mkdir   iv) rmdir.                                      **(10 Marks)**

**OR**

4  a. Discuss ls commands with options.                                            **(10 Marks)**
   b. Explain absolute method of changing permissions by giving example.           **(10 Marks)**

### Module-3

5  a. Explain different modes of Vi editor                                          **(10 Marks)**
   b. Discuss ex-mode commands of Vi editor.                                        **(10 Marks)**

**OR**

6  a. Explain shell interpretive cycle.                                             **(04 Marks)**
   b. Which are standard files used in UNIX? Explain.                               **(08 Marks)**
   c. By giving examples, explain extended regular expression.                      **(08 Marks)**

### Module-4

7  a. With example, explain logical operators in shell programming.                 **(05 Marks)**
   b. Discuss for statement in shell script with example.                           **(05 Marks)**
   c. Write a shell program to do the following :
      i) List of files   ii) Processes of user   iii) Today's date  vi) Users of the system.
      Using case conditional.                                                       **(10 Marks)**

**OR**

8  a. Discuss head and tail commands along with its options.                        **(10 Marks)**
   b. By specifying examples, explain hard and soft links.                          **(10 Marks)**

### Module-5

9  a. Along with the options and examples, explain ps command.                      **(10 Marks)**
   b. By giving example, explain nice and nohup commands.                           **(10 Marks)**

**OR**

10 a. Explain string handling function of perl.                                     **(06 Marks)**
   b. With example, explain split and join function of perl.                        **(06 Marks)**
   c. What is subroutine? Explain by giving example.                                **(08 Marks)**

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