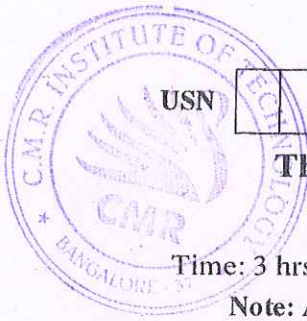


# CBCS SCHEME



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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. (10 Marks)  
i) ls ii) who iii) cat iv) echo

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. (10 Marks)  
i) pwd ii) cd iii) mkdir iv) rmdir.

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. (10 Marks)  
i) List of files ii) Processes of user iii) Today's date vi) Users of the system.  
Using case conditional.

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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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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