

B.Tech III Year II Semester (R13) Supplementary Examinations 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) Mention the characteristics of Unix operating system.
  - (b) Describe the different modes available for vi editor.
  - (c) Explain about creating of links among files.
  - (d) List the options available with tail and head commands.
  - (e) Define a regular expression? Compare and contrast it with a mathematical expression.
  - (f) Explain about Command substitution.
  - (g) Give the rules of defining a user defined variable.
  - (h) Write about more and comm commands with examples
  - (i) Write a C shell script to greet the user depending on the time of the day.
  - (j) Give the command which displays all the commands executed at the shell interface.

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

- 2 Describe in detail about the structure of UNIX.  
How to change permissions of a file? Explain with examples.

**OR**

- 3 How can we set the permissions for a directory or file? Explain with example.  
Explain about possible UNIX environments

**UNIT – II**

- 4 Describe filters and pipes in Linux. Explain any two filter with all possible options and examples.

**OR**

- 5 Explain all possible ways of command execution in shell.  
What are the possible redirection operators? Write shell script to illustrate redirection operators.

**UNIT – III**

- 6 Explain grep family of commands with options and example for each

**OR**

- 7 Write the differences between sed and awk. Explain awk in detail with examples.

**UNIT – IV**

- 8 Write a shell script to print the number of lines, words, digits and special symbols present in a file.

**OR**

- 9 Which statement is used as multiway selection in shell? With a program to demonstrate the same.

**UNIT – V**

- 10 (a) Discuss how 'eval' command is executed with example.  
Write a shell script to check given number is palindrome or not

**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.

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