

B.Tech III Year I Semester (R13) Supplementary Examinations June 2016

**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)
- Discuss about various modes of vi editor.
  - Write syntax for changing ownership and group name on a given file/s.
  - List out 'here' document and append redirection operators with example.
  - Describe usage of cmp and diff commands.
  - Explain any one remote accessing mechanism.
  - State general structure of an awk and discuss about its content.
  - List out features of korn shell.
  - How to debug a shell script?
  - Write about usage of 'eval' command usage.
  - In C shell, how positional parameters are changed?

**PART – B**

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

**UNIT – I**

- 2 (a) Explain the structure of UNIX operating system with the help of neat diagram.  
(b) What are the possible file system security levels? How to change permissions of a file?

**OR**

- 3 (a) Explain about possible UNIX environments with the help of diagrams.  
(b) What is a directory? Explain Significance of Sticky bit permissions on a directory.

**UNIT – II**

- 4 (a) In UNIX, What is a filter? Explain about head and tail filters.  
(b) What are the possible redirection operators? Give an example for each.

**OR**

- 5 (a) Explain all possible ways of command execution in shell.  
(b) Write a shell script to count number of words and lines present in each file of a given directory.

**UNIT – III**

- 6 (a) Explain grep family utility with one example each.  
(b) Write the differences between sed and awk.

**OR**

- 7 (a) Explain how ftp is used for remote access.  
(b) Write a shell script to display number of occurrences of a given word in a list of files.

**UNIT – IV**

- 8 (a) Write about both input and output statements used in korn shell.  
(b) Write a shell to demonstrate usage of control flow statements.

**OR**

- 9 (a) List out the features of korn shell.  
(b) Explain the procedure for debugging a script in korn shell.

**UNIT – V**

- 10 (a) Discuss how 'eval' command is executed with example.  
(b) Write a C shell script to display Fibonacci series up to a given n value.

- 11 (a) Write about how to configure a startup and shutdown scripts.  
(b) Write a shell script to display various file attributes corresponding to it.

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