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**3E1655****3E1655**

**B.Tech .III Semester (Main/Back) Examination -2014**  
**Computer Engg. & Information Tech.**  
**3CS5A & 3IT5A Fundamentals of Linux shell Programming**

**Time : 3 Hours****Maximum Marks : 80****Min. Passing Marks : 24****Instructions to Candidates:**

*Attempt any five questions, selecting one question from each unit. All questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.)*

**Unit - I**

1. a) What would be the effect of the following commands? (4)
  - i) fg ss+ctl z
  - ii) bg tt+ctl c
  - iii) alias C= Clear
  - iv) du ../..
- b) How the read write and execute permissions attached with a file are different from that attached to a directory? Explain. (4)
- c) Explain hard & symbolic links. What is Environment and path setting? (4+4)

OR

1. a) Explain Loggin, changing password in Linux shell. What are man, Xman, info commands in help? (4+4)
- b) Explain directory commands. (8)

Unit - II

2. a) Explain features of Vi editor. Explain insertion, deletion, searching and substitution operations in brief. (2+8)
- b) Explain compiling and linking C, C++ programs (6)

OR

2. a) What are benefits of using expressions in file and discuss with example it's suitable operator?
- b) Explain the advance editing techniques in "Vim"?
- c) Explain debugging C programs using gdb
- d) Explain put, delete, yank, U commands (16)

Unit - III

3. a) Explain the X-Windows in context to other system that also support windows (8)
- b) Explain the underlying concept behind a window manager (8)

OR

3. a) Explain the terms remote display with reference to X-window system (8)
- b) Write command for following
- i) Remap the mouse button for left handed user
- ii) Open X-terminal with blue back-ground, yellow foreground, window Title="Hard and soft" (8)

Unit - IV

4. a) List situations when \*, ?, - and ! characters lose their meaning (8)
- b) Find the output of following command and explain (8)
- i) `$ls -l | date | who`

ii) `$cal & date & uname &`

iii) `$ ls/`

iv) `$(cal; date);(uname; who)`

**OR**

4. a) Explain piping and filters in detail with examples (10)  
b) Explain directory stack manipulation with example (6)

**Unit - V**

5. a) Explain control structures. How to use NULL and USET variables (4+4)  
b) Explain Built in functions and history in detail (4+4)

**OR**

5. Explain source code Managements using RCS and CVS (16)