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BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum)
MAY/JUNE 2014 Semester End Main Examinations

Course: Unix Programming

Course Code: 09CI4GCUNX

Duration   : 3 hours

Max Marks: 100

Date: 05.06.2014

Instructions: Answer any five full questions choosing one from each unit.

UNIT 1

1 a.   Distinguish between i) internal commands & external commands ii) Argument   06
& Option
   b.   Write the differences between absolute and relative pathnames with examples.   06
   c.   Explain the following commands with examples i) bc ii) stty iii) od iv) comm   04
   d.   Explain different types of files in Unix.   04

UNIT 2

2 a.   Explain finger, talk and mesg commands as related to communication under   05
Unix OS
   b.   Discuss how the permission of a file can be changed using octal digits   05
   c.   Clearly differentiate between hard links & soft links   06
   d.   Explain gzip & gunzip commands   04

UNIT 3

3 a.   Describe the mechanism of process creation.   06

   b.   Explain grep command with options.   08

   c.   How is shell process created? Explain.   06

UNIT 4

4 a.   What is shell programming? Explain with examples how expressions are   08
evaluated in shell programming using test and [ ].
   b.   What are the shell parameters $*, $# and $?. Explain very briefly.   06
   c.   Write a shell script to find the factorial of a given number.   06

5 a. Explain how expr is used to   06
                  i. perform arithmetic operations.
                 ii. String handling.

   b. What is 'for'' loop in a shell script? Explain the different ways of using for loops with examples. 06

   c. Write a shell script to check if a given string is palindrome or not. 08

UNIT 5

6 a. Discuss the use of AWK command with syntax. Also list and explain any four built in variables of AWK 08

   b. Describe the importance of BEGIN and END sections in AWK script with examples. 06

   c. Write a AWK program to provide extra spaces at the end of a line if required so that the line length is maintained at 127. 06

OR

7 a. Explain the use of the built in functions with examples 08

   b. Discuss associative arrays with respect to PERL programming with examples. 06

   c. Write a PERL program that accepts decimal number as argument and convert it into binary. 06

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