Code: 13A04806 **R13**

B.Tech IV Year II Semester (R13) Advanced Supplementary Examinations July 2018

**LINUX PROGRAMMING & SCRIPTING**

(Electronics and Communication 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) Demonstrate how locate command is used in Linux.
(b) Show how GREP command is used in Linux.
(c) What does a PING command does? What does PING stands for?
(d) Demonstrate the use of Finger command in Linux.
(e) How an anonymous array is used in Perl?
(f) Compare for and for each loops in Perl.
(g) What are TCL handles?
(h) Demonstrate the usage of nested switch statement in TCL with an example.
(i) Explain the usage of frozen sets in PYTHON.
(j) Write the syntax of declaring a function in PYTHON.

**PART – B**

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

**UNIT – I**

2 Explain the functioning of Linux kernel with a neat schematic.

**OR**

3 Write a shell script that checks whether a given integer is an armstrong number.

**UNIT – II**

4 Explain the network file system of Linux in detail.

**OR**

5 Explain about DHCP in detail.

**UNIT – III**

6 Write a Perl script that finds the sum of individual digits, recursively till the sum of digits is a single digit, of that number using recursion. Please note if the number is 2999, the sum of digits is 29, sum of digits of 29 is 11 and then sum of digits of 11 is 2. The script should use recursion to find the sum of digits.

**OR**

7 Write a Perl script to sort a set of elements, stored in a hash, in ascending order.

**UNIT – IV**

8 Write a TCL script to generate Fibonacci series up to a given number using recursion.

**OR**

9 Explain in detail about TK Widgets.

**UNIT – V**

10 Write a PYTHON script to sort a given set of integers using insertion sort and recursion.

**OR**

11 Describe the features of PYTHON language.

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