# END TERM EXAMINATION

**FIFTHE SEMESTER [MCA] DECEMBER 2013**

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| *Paper code: MCA 301* | *Subject: Linux Programming(new)* |
| *Time: 3 Hours* | *Maximum Marks :60* |

**Note: Attempt any four questions including Q. no. 1 which is compulsory.**

Q1      (a) Illustrate expr command with example.

(b) What are inodes.

(c) Highlight the case-esac construct syntax with example.

(d) Compare shell script with C language.

(e) Write shell program to generate first n prime numbers.                    **(3X5=15)**

Q2      (a) Explain the use of Regular Expression in Linux with suitable examples.          **(8)**

(b) Explain grep filter along with its syntax and options.

How is grep different from egrep and fgrep.                              **(7)**

Q3      (a) Explain how dependency calculations are performed in a make file in Linux.     **(7)**

(b) Explain the conditional and control structures in shell scripting with examples.     **(8)**

Q4      Explain architecture of Linux OS with highlight on redirection pipes & filter with aid of

examples.                                                          **(15)**

Q5      Explain backup and restore utilities in Linux.                          **(15)**

Q6      Explain the working modes of Vi editor.                              **(15)**

Q7      How can a process be created in Linux. Discuss the various means available to delay or stop a
process.                                                          **(15)**