



Code: 9F00303

MCA III Semester Supplementary Examinations May 2018

LINUX PROGRAMMING

(For 2011 (LC), 2012, 2013, 2014, 2015 & 2016 admitted batches only)

Time: 3 hours

Max. Marks: 60

**Answer any FIVE questions
All questions carry equal marks**

- 1 Give brief description on the different awk operators.
- 2 Write a shell script to find the factorial of any given number.
- 3 Distinguish between:
 - (a) getch and getchchar.
 - (b) putc and putcchr.
 - (c) fgets and gets.
- 4
 - (a) What is a process? List and explain the properties of a process.
 - (b) Write short notes on vfork and wait system calls.
- 5
 - (a) Explain about the importance of reliable signals in Linux.
 - (b) With the help of syntax and example, explain kill, raise and pause functions.
- 6
 - (a) Discuss in detail about the role of semaphores in Linux programming.
 - (b) In what way a pipe differs from FIFO? Explain.
- 7 Why we need threads? Discuss in detail about the POSIX threads.
- 8 Write short notes on the following:
 - (a) Connection oriented protocols.
 - (b) Sockets.
