Code: 9F00303

MCA III Semester Regular & Supplementary Examinations November 2016
LINUX PROGRAMMING
(For 2011, 2012, 2013, 2014 & 2015 admitted batches only)

Time: 3 hours   Max. Marks: 60

Answer any FIVE questions
All questions carry equal marks

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1 (a) Discuss the commands used to achieve the files and compress the contents of files in detail.
   (b) With help of syntax and example explain the following commands:
          (i) cat   (ii) rm   (iii) cd

2 (a) What is a shell script? Write a shell script which works similar to "more" command.
   (b) What is a shell script? Write a shell script which works similar to "more" command.

3   Distinguish between the following:
   (a) getc and getchar.
   (b) putc and putchar.
   (c) gets and fgets.
   (d) mask and umask.

4 (a) Draw and explain the structure of a process.
   (b) Explain the role of zombie process in linux programming.

5   Discuss in detail about the following system calls:
   (a) kill.
   (b) raise
   (c) abort.
   (d) sleep.

6   How can you achieve inter process communication by using pipes and FIFOs? Explain in detail.

7 (a) List the benefits of using multithreaded programming.
   (b) What is meant by synchronization? How synchronization is achieved with semaphores?

8   Write and explain the steps in connection establishment and termination between client and server.

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