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Code: 9A12601

B.Tech IV Year I Semester (R09) Regular & Supplementary Examinations December 2015

LINUX PROGRAMMING
(Electronics & Computer Engineering)

Time: 3 hours   Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

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1 (a) Explain about file handling utilities.
   (b) List and explain the different commands in AWK.

2   Write a short note on:
   (a) Pipes and input redirection.
   (b) Shell commands.

3 (a) Explain the structure of a file system with the help of a program.
   (b) Explain how kernel gives support for files.

4   Briefly explain about signals in details.

5 (a) What is shared memory? Explain in detail about interprocess communication.
   (b) Explain the client/server example for interprocess communication.

6   Describe briefly about semaphores and shared memory.

7   Explain the following:
   (a) POSIX thread APIs.
   (b) Thread synchronization.

8   Define socket. Explain the socket system calls for connection oriented and connectionless protocol.

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