

Code: 06MC303

MCA III Semester Supplementary Examinations September/October 2014

UNIX NETWORK PROGRAMMING

(For students admitted in 2008 only)

Time: 3 hours

Max Marks: 60

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Explain how security is provided by file permissions.
(b) Describe the purpose of the following commands with examples:
ls, ps, ftp, tail, grep, join, cmp and tar.
- 2 (a) Write a shell program to count and display the number of files in a given directory.
(b) Describe the control structures in detail.
- 3 (a) Write a program to copy standard input to standard output.
(b) Explain the directory handling system calls.
- 4 (a) Differentiate between:
(i) fork and vfork.
(ii) wait and waitpid.
(b) Write a program to illustrate sleep function implementation.
- 5 Explain system V IPC in detail.
- 6 Explain UNIX APIs for messages in detail.
- 7 (a) Explain file locking with semaphores with an example.
(b) Briefly explain about UNIX APIs for shared memory.
- 8 What is a socket? Explain the socket system calls for connection oriented protocol in detail.
