Unix System Programming Lab Internals questions - Jan- May 2018

Sl. No.	Question	Course Outcome
1.	Write a C program to display the file content in reverse order using lseek system call.	CO1
2.	Write a C program a. to read first 20 characters from a file b. seek to 10th byte from the beginning and display 20 characters from there c. seek 10 bytes ahead from the current file offset and display 20 characters d. display the file size	CO1
3.	Write a C program to implement ls –li command which list the files in a specified directory. Your program should Print 5 attributes of files.	CO1
4.	Write a C program to demonstrate the creation of soft links and the various properties of hard links	CO1
5.	Write a C program to Copy access and modification time of a file to another file using utime function.	CO1
6.	Write a C program to illustrate effect of setjmp and longjmp functions on register and volatile variables.	CO2
7.	C program to simulate copy command by accepting the filenames from command line. Report all errors.	CO1
8.	Write a C program to avoid zombie status of a process.	CO2
9.	Write a C program to demonstrate race condition among parent and child processes.	CO2
10	Write a C program such that it initializes itself as a daemon Process.	CO2
11	Write a C program using sigaction system call which calls a signal handler on SIGINT signal and then reset the default action of the SIGINT signal	CO3
12	Write a C program (use signal system call) i. which calls a signal handler on SIGINT signal and then reset the default action of the SIGINT signal ii. Which ignores SIGINT signal and then reset the default action of SIGINT signal	CO3