LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

FIRST SEMESTER – APRIL 2014

CS 1826/1820 - LINUX PROGRAMMING

Date : 07/04/2014   Dept. No.   Max. : 100 Marks
Time : 09:00-12:00

PART – A

ANSWER ALL THE QUESTIONS: 10 X 2 = 20

1. What is preemptive multi task?
2. List out three condition types?
3. How do you suppress new line character in echo?
4. What is the use of link system call?
5. Define: gmtime.
6. What function create unique filename for temporary files?
7. What is pipe?
8. What is fork system call?
9. What function create shared memory? Give its syntax.
10. What is the usage of bind system call?

PART – B

ANSWER ALLTHE QUESTIONS :   5 X 8 = 40

11. a) Write a note on shell function.
                                (OR)
    b) Explain the input and output redirection with an example.

12. a) What shell options are used to trace complicated errors? Explain.
                                (OR)
    b) Explain the Continue and Break commands with suitable examples.

13. a) Write in brief about environment variables.
                                (OR)
    b) Write a note on simple memory allocation.

14. a) What is replacing process image? Explain.
                                (OR)
    b) Describe about low level pipe function.

15. a) Write a note on the following (i) msgsnd (ii) msgrcv
                                (OR)
    b) How semaphores handles critical section? Explain.

PART – C

16. a) Discuss about shell control structures in detail.(10)
    b) Explain read, write and open system calls.(10)

17. a) Write a program to detect options using getopt. (10)
    b) Discuss about process structure and process scheduling in detail. (10)

18. a) Explain Socket attributes in detail.(10)
    b) Discuss about shell List in detail. (10)

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