

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted from the academic year 2004 – 05)

SUBJECT CODE: CA/MC/OS64

B. C. A. DEGREE EXAMINATION, APRIL 2007
SIXTH SEMESTER

COURSE : MAJOR CORE
PAPER : OPERATING SYSTEMS - II
TIME : 1½ HOURS **MAX. MARKS: 50**

PART – A

ANSWER ALL THE FOLLOWING QUESTIONS: (5 x 1 = 5)

1. The _____ is the UNIX system's command interpreter.
2. The user is automatically placed into the _____ directory after logging into the UNIX system.
3. Characters that have special properties are known as _____.
4. The directory where system administration files are found in UNIX is _____.
5. The _____ command only terminates processes specified by process -id.

ANSWER ALL THE FOLLOWING QUESTIONS: (5 x 1 = 5)

6. The directory where who command resides is
a) /etc b) /dev c) /bin d) /lib
7. Which of the following is not a filter command
a) Sort b) wc c) tail d) echo
8. Which of the following is a Shell command terminator
a) & b) \$ c) ; d) #
9. The command that is used to locate a file in a particular directory and in all its sub directories.
a) Search b) find c) grep d) locate
10. The function that causes the program to be suspended for the specified number of seconds is
a) wait b) sleep c) signal d) unlink

PART – B

ANSWER ALL THE FOLLOWING QUESTIONS: (5 x 2 = 10)

11. What is the function of the kernel?
12. What is the information stored in Inodes?
13. List any two problems faced by multiprocessor systems.
14. Define Multithreading.
15. Write notes on Bash Shell.

PART – C

ANSWER ANY SIX THE FOLLOWING QUESTIONS:

(6 x 5 = 30)

16. What are the various operating system services?
17. Explain the LINUX file system.
18. a) Give the syntax of the 'for' looping construct in shell programming . (2)
b) Interpret the following shell I/O redirections (3)
 - i) >file
 - ii) >>file
 - iii) <file
19. a) Give the purpose and format of grep command (2)
b) Give the output of the following (3)
 - i) \$who | grep arun
 - ii) \$ls | sort -f
 - iii) \$ sed - n'20,30p'
20. Explain with examples how file permissions can be changed in UNIX.
21. Write notes on sort filter by giving the various options available with it.
22. Explain any five General purpose utilities.
23. Explain how semaphores are used to solve problems arising in multiprocessor systems.
