

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted from the academic year 2007 – 08)

SUBJECT CODE: CS/MC/OS64

B. C. A. DEGREE EXAMINATION, APRIL 2010
SIXTH SEMESTER

COURSE : MAJOR CORE
PAPER : OPERATING SYSTEM - II
TIME : 1½ HOURS

MAX. MARKS: 50

SECTION - A

ANSWER ALL THE QUESTIONS :

10 X 1 = 10

CHOOSE THE CORRECT ANSWER :

1. The top most directory is typically referred to as –
 1. System directory
 2. Kernel directory
 3. Root directory
 4. Parent directory
2. The three files initially opened by your shell are
 1. Input, output and data
 2. Standard input, standard output and standard error
 3. Standard input, standard output and standard data
 4. Input, output and error
3. Which of the following is used to list files in the long format?
 1. ls
 2. ls -l
 3. ls -a
 4. None of these
4. _____ is a shell variable.
 1. PATH
 2. TRY
 3. Filter
 4. vi
5. Which of the following commands takes the cursor to the last column in the current line?
 - a. \$
 - b. ^
 - c. 0
 - d. W

FILL UP THE BLANKS :

6. In the vi editor, to move line x, we can use _____
7. _____ utility displays terminal-dependent information.
8. _____ command is used to kill a process.
9. In memory management, the process by which only the required pages are moved to the _____ main memory from the swap device is called _____.
10. _____ command is used to give permission to a user as a owner.

SECTION - B**Answer ALL :****(5 x 2 = 10)**

11. What is 'sed' tool?
12. What are filters? Give examples of filters.
13. Write a UNIX command to print the status of all processes.
14. Predict the output of the following code.

```
main()
{
    fork();
    printf("Hello World!");
}
```

15. What is the difference between the cmp and diff commands?

SECTION - C**Answer any SIX of the following :****(6 x 5= 30)**

16. Describe the LINUX architecture and file system with suitable diagrams.
17. Explain the Loop statements in Shell programming with examples.
18. Explain the booting procedure in UNIX.
19. Discuss the features of AWK with examples.
20. Explain the EXT3 file system in LINUX.
21. Explain the structure of a directory with inodes.
22. Write a shell script to reverse the string given in command line.
23. Discuss the modes of operation in vi editor with a diagram depicting the relationship between them.
