

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2008 – 09)

SUBJECT CODE : CS/PC/OS14

M.Sc. DEGREE EXAMINATION, NOVEMBER 2008
INFORMATION TECHNOLOGY
FIRST SEMESTER

COURSE : MAJOR CORE
PAPER : OPERATING SYSTEMS
TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A
ANSWER ALL THE QUESTIONS (10X2=20)

1. Draw the diagram to show the storage device hierarchy.
2. What is a system call?
3. Name the five process state.
4. Define Wait(s) & signal(s).
5. What are frames and pages?
6. Name any four attributes of file.
7. What is cache?
8. What is a spool?
9. Name the two modes in which vi editor operates.
10. What is a shell script?

SECTION – B
ANSWER ANY SIX QUESTIONS (6X5=30)

11. Explain about the system programs.
12. Discuss the Readers-Writers problem.
13. Explain about the resource allocation graph.
14. What are the various access methods for a file?
15. Explain Interrupts.
16. Explain Linux shell.
17. Explain about Semaphores.
18. Describe about RAID structure.

SECTION – C
ANSWER ANY FIVE QUESTIONS (5X10=50)

19. Discuss about the hardware protection.
20. Explain any three scheduling algorithms.
21. Explain two-process solutions in critical section problem.
22. Discuss in detail about contiguous allocation.
23. Explain the directory structure.
24. Discuss about the kernel I/O system.
25. Explain Linux file system.



