

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086
(For candidates admitted during the academic year 2009-10)

SUBJECT CODE : CS/PC/OS24

M. Sc. DEGREE EXAMINATION, APRIL 2010
INFORMATION TECHNOLOGY
SECOND SEMESTER

COURSE : CORE
PAPER : OPERATING SYSTEMS
TIME : 3 HOURS

MAX. MARKS : 100

Section – A

Answer all the questions

10 * 2 = 20

1. Define Batch Systems
2. Define Time Sharing Systems
3. Define Process.
4. Define Co-operating process.
5. Define Mutual Exclusion.
6. Define Semaphores
7. Compare Compile Time and Load Time.
8. Define Virtual Memory.
9. What is meant by Bitmap?
10. Define Swap-Space Management.

Section – B

Answer any SIX of the following

6 * 5 = 30

11. Explain Multi processor systems.
12. Discuss various services of operating systems.
13. Discuss various process states.
14. Explain about threads.
15. Discuss synchronization hardware.
16. Discuss about swapping of two process using disk as a backing store.
17. Discuss various file operations.
18. Explain about file allocation methods.

Section – C

Answer any FIVE of the following

5 * 10 = 50

19. Explain about System Calls.
20. Discuss any two CPU scheduling algorithms with suitable examples.
21. Discuss inter process communication.
22. Discuss any two classic problems of synchronization.
23. Explain about Deadlock prevention and avoidance.
24. Discuss demand paging
25. Discuss about Disk scheduling.

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