

CSM32 Operating System Concepts

615

REG. NO

OCTOBER 2021

Time: Three hours

Maximum Marks: 75

- Note:
1. Answer ALL the questions in PART-A (1 mark each)
 2. Answer any ONE question from each unit in PART-B (3 marks each)
 3. Answer any ONE question from each unit in PART-C (10 marks each)
 4. The question paper contains TWO Pages

PART-A (1x10=10)

1. Define operating system.
2. Define Booting.
3. What is a process?
4. What is a aging?
5. What is a internal fragmentation?
6. Define dirty page.
7. What is a RAID array?
8. What is the use of password?
9. Expand FSF/GNU
10. List the different types of files used in Linux.

PART-B (3x5=15)

UNIT-I

11. Explain any one operating system.
12. Draw the diagram of microkernel architecture.

UNIT-II

13. What are the benefits of thread?
14. Write about Deadlock recovery.

UNIT-III

15. Explain fixed partition allocation.
16. Explain first in first out page replacement algorithm.

UNIT-IV

17. Draw the structure of Disk drive.
18. Explain about security mechanism.

UNIT-V

19. List out the features of Linux.
20. Define mounting and unmounting.

615

PART-C (10x5=50)

UNIT-I

21. Explain about operating system components (any 4).
22. Explain about different types of system call.

UNIT-II

23. Explain
 - i) Shortest-Job-First Scheduling.
 - ii) Round Robin Scheduling.
24. Explain
 - i) Semaphores.
 - ii) Deadlock Characterization

UNIT-III

25. Explain operation of paging with diagram.
26. Explain Demand paging.

UNIT-IV

27. Explain RAID technologies.
28. Explain Disk Space allocation method.

UNIT-V

29. Explain Different types of files.
30. Explain Linux architecture with neat diagram.
