

Time : Three hours

Maximum : 80 marks

PART A — ( $10 \times 2 = 20$  marks)

Answer any TEN questions.

1. Define time sharing.
2. List the two types of operation.
3. List any two important responsibilities of operating systems.
4. Expand WORM.
5. What is the use of fork system call?
6. Define mutual exclusion.
7. What is mean by circular wait?
8. What is the difference between safe state and unsafe state?
9. What is the process involved in deadlock.

10. Define bit map and bit vector.
11. State the use of buffer cache.
12. What is the use of fsck?

PART B — ( $5 \times 6 = 30$  marks)

Answer any FIVE questions.

13. Give a short notes on time sharing.
14. Explain in short about dual mode operation.
15. Short notes on scheduling.
16. Explain about allocation methods.
17. Discuss about demand paging.
18. Mention about file protection.
19. Explain about consistency semantics.

PART C — ( $3 \times 10 = 30$  marks)

Answer any THREE questions.

20. Give a detail explanation of CPU scheduling.
21. Explain detail about inter process communication.

22. Discuss in detail about paging and segmentation.
  23. Elaborate reliability improvements.
  24. Explain in detail file encryption.
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