

MAY 2023

**P/ID 16305/PIT2D/
PCAEA**

Time : Three hours

Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. Define Operating Systems.
2. Explain distinguished features of time sharing system.
3. What are the advantages of distributed operating system?
4. Write the difference between Job-scheduling and CPU-scheduling
5. Define single threaded process.
6. Define thread.
7. Mention various scheduling criteria.
8. List out the conditions on deadlock.
9. Define privileged instruction.
10. List out the purpose of paging.

11. Define demand paging.
12. List the feature of file systems.

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions.

13. Explain brief about concurrent process.
14. Give a short notes on system call.
15. List the types of directory structures.
16. Mention about deadlock situation.
17. List the components of file systems.
18. Describe about allocation of disk space.
19. List the major activities of consistency semantics.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

20. Explain in detail about any one scheduling algorithm
21. Discuss about Process synchronization

22. Elaborate about page replacement and its algorithm.
 23. Explain in detail about file system organization.
 24. List out the security issues in file systems.
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