MAY 2022

P/ID 16305/PIT2D/ PCAEA

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What is meant by distributed system?

2. Give the diagram of transition from user to kernel mode.

3. List out the scheduling algorithms.

4. What is called semaphores?

5. List out the characteristics in deadlock.

6. What is known as paging?

7. What is meant by thrashing?

8. Define the term SSD.

9. Which file is called as source file?

10. What is meant by Denial-of-service?

11. Give any two design principles of UNIX.

12. Write down the generations of Windows Operating System.

PART B — (5 × 6 = 30 marks)

Answer any FIVE questions.

13. Discuss about time sharing system.

14. Write short notes on process concept.

15. Describe about critical problems in process synchronization.

16. How to avoid the deadlock problem? Explain.

17. Narrate the memory segmentation process.

18. Explain the file access methods.

19. Give short notes on design principles of Windows Operating System.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Elaborate on the operating system services.

21. Illustrate semaphores in process synchronization.

22. Explain page replacement and its algorithms.

23. Write a detailed notes on file operations.

24. Explain the process control in UNIX.

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