Time : Three hours   Maximum : 80 marks

SECTION A — (10 × 2 = 20 marks)

Answer any TEN questions.

1.   What is called multiprogramming?

2.   What are system calls?

3.   List out the process states.

4.   What is meant by process synchronization?

5.   What is meant by inter-process communication?

6.   List out the characteristics of deadlock.

7.   Define the term swapping.

8.   Define disk scheduling.

9.   List out the attributes of a file.

10. Write a note on encryption.

11. What are the advantages of UNIX?

12. Highlight the generations of Windows Operating System.

SECTION B — (5 × 6 = 30 marks)

Answer any FIVE questions.

13. Discuss about time sharing system.

14. Describe about system programs.

15. Write short notes on classical problem of synchronization.

16. Explain about segmentation.

17. Describe about demand paging.

18. Give short notes on file access methods.

19. What are the design principles of UNIX? Explain.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Illustrate on any two scheduling algorithms.

21. Elaborate on the concepts of deadlock.

22. Discuss the page replacement and its algorithm.

23. Give a detailed notes on security problems in file management.

24. Explain the basic commands in UNIX.

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