NOVEMBER/DECEMBER 2020

BCS52 — OPERATING SYSTEM

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define the term – Operating system.

2. What is Process Management?

3. What is Priority Scheduling in CPU Scheduling?

4. Define the term – Deadlock.

5. What is Main memory?

6. Distinguish between Pages and Frames in memory management.

7. Define the term – Swapping.

8. What is Virtual memory?

9. Define the term – File system.

10. What is meant by File protection?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Discuss on the services of Operating System.

Or

(b) Explain briefly the Classification of Operating System.

12. (a) Describe the basics of CPU Scheduling and Scheduling criteria.

Or

(b) Discuss on Deadlock avoidance procedure.

13. (a) Explain the basics of Memory-address binding, Logical and Physical address space.

Or

(b) Describe the concept of Memory allocation and Protection.

14. (a) Discuss on Segmentation in memory management.

Or

(b) Explain the Paging memory management technique.

15. (a) Describe the Allocation methods in File system implementation.

Or

(b) Discuss on Disk Scheduling algorithms.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe the Process concept, its states, and process control block.

17. Explain the FCFS, SJF and Round-robin Scheduling algorithms.

18. Discuss on Memory Partitioning, Fragmentation and Compaction.

19. Describe the Page Replacement algorithms in Demand paging.

20. Explain the Directory structure in File management.

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