

NOVEMBER/DECEMBER 2020

BCA52 — 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?
3. Define the term – I/O Burst cycle.
4. List out the four types of Scheduling algorithms.
5. Define the term – Memory partition.
6. What is Protection?
7. Define the term – Virtual memory.
8. What is Segmentation?
9. Define the term – Acyclic-graph directories.
10. What are the two components of Disk scheduling?

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) Explain the Process Control Block with neat diagram.

Or

- (b) Describe the Classification of Operating System.

12. (a) Write short notes on Scheduling Criteria.

Or

- (b) Describe about the basic concept of Deadlock.

13. (a) Explain the Logical and Physical address spaces.

Or

- (b) Discuss on Memory allocation.

14. (a) Write short notes on basic method of Paging.

Or

- (b) Discuss on Inverted Page table.

15. (a) Describe the Tree structured directories with neat diagram.

Or

- (b) Discuss on LRU page replacement with suitable example.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Illustrate the Process Scheduling.
 17. Describe the Deadlock avoidance algorithm with suitable example.
 18. Discuss on the basic concept of Memory management.
 19. Explain in detail the concept and performance of Demand paging.
 20. Discuss on various Disk scheduling algorithms with example.
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