

19. (a) Explain about the different types of storage devices.

Or

- (b) Explain I/O device handler scheduling algorithms.

20. (a) Explain the concepts of Logical file system.

Or

- (b) Explain the windows operating systems.
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S.No. 9073

NSRGA 4

(For candidates admitted from 2003-2004 onwards)

B.C.A. DEGREE EXAMINATION, NOVEMBER 2022.

Part III — Computer Application — Major

OPERATING SYSTEMS

Time : Three hours

Maximum : 100 marks

PART A — (10 × 2 = 20)

Answer ALL questions.

1. Define operating system.
2. List out two advantage of multiprogramming.
3. List out the advantages of partitioned allocation.
4. What are disadvantages of single contiguous allocation?
5. Define average turnaround time.
6. Define Race condition.
7. What is mean by dedicated devices?
8. What is a direct coupled system?

9. What are the various file operations?

10. What is file mapping function?

PART B — ($5 \times 6 = 30$)

Answer ALL questions choosing either (a) or (b).

11. (a) Explain early computer systems.

Or

(b) Explain the Interrupt structure and processing.

12. (a) Discuss the three common strategies of partition allocation.

Or

(b) Write short notes on swapping and overlay techniques.

13. (a) What is job scheduling and discuss about the policies?

Or

(b) List out the method using for detecting deadly embraces.

14. (a) Explain the basic functions of device management.

Or

(b) Explain the I/O traffic controller.

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15. (a) Write short notes on symbolic file systems.

Or

(b) List out the access method of logical file systems.

PART C — ($5 \times 10 = 50$)

Answer ALL questions choosing either (a) or (b).

16. (a) Explain the types of operating systems in details.

Or

(b) Explain about the I/O programming concepts.

17. (a) Explain the partition allocation and deallocation algorithms with diagram.

Or

(b) Explain the segmented memory management techniques.

18. (a) Explain the process scheduling in details.

Or

(b) Explain the process synchronization and its functions.

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