

19U650

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Name:

Reg.No:

SIXTH SEMESTER B.Sc./B.C.A. DEGREE EXAMINATION, APRIL 2022

(CBCSS - UG)

CC19U BCS6 B12 / CC19U BCA6 B12 - OPERATING SYSTEMS

(Computer Science / Computer Application - Core Course)

(2019 Admission - Regular)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Explain different types of OS.
2. Explain a thread. Write the benefits of multithreaded programming.
3. Describe critical section.
4. Explain file permissions in Linux.
5. Explain the use of cat command using an example.
6. Describe an example of a preemptive scheduling algorithm.
7. Explain starvation. How it can be resolved?
8. Explain a semaphore.
9. Distinguish Sequential and direct access methods.
10. Explain first fit, best fit and worst fit approaches in memory allocation citing merits and demerits.
11. Explain swapping and its need.
12. Describe the term Authentication.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Explain the working of POST operation.
14. Describe process States and importance of PCB in program execution.

15. Describe with suitable example conditional commands in shell scripts?
16. Describe a shell program to print even numbers between 0 and 100.
17. Illustrate the concept of compaction in detail.
18. Describe any two methods of page replacement in detail.
19. Describe the features and architecture of Android OS.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

20. Explain deadlock conditions and Banker's algorithm.
21. Make a short note round robin scheduling with an example? Explain the importance of time quantum.

(1 × 10 = 10 Marks)
