SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2024

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P CSS2 C07 - OPERATING SYSTEM CONCEPTS

(Computer Science)

(2019 Admission onwards)

Time : 3 Hours   Maximum : 30 Weightage

Part-A

Answer any *four* questions. Each question carries 2 weightage.

1. List the different modes of process execution.

2. Explain Race condition with example.

3. Demonstrate segmentation with example.

4. Adapt Windows Memory Management.

5. Demonstrate premptive and non premptive scheduling.

6. Discuss the concept of Middleware.

7. Explain the importance of RPC in mobile OS.

(4 × 2 = 8 Weightage)

Part-B

Answer any *four* questions. Each question carries 3 weightage.

8. Show the different types of operating system.

9. Show Linux Process and Thread Management.

10. Explain Producer Consumer Problem.

11. Describe Bankers Algorithm.

12. Illustrate address binding, dynamic linking and swapping.

13. Demonstrate the characteristics of Real Time OS.

14. Describe Mobile Operating System with an example.

(4 × 3 = 12 Weightage)

Part-C

Answer any *two* questions. Each question carries 5 weightage.

15. Identify various multithreading models.

16. Describe Unix Concurrency Mechanisms.

17. Illustrate working set model and the concept of thrashing.

18. Illustrate Thread Scheduling and process scheduling concepts.

(2 × 5 = 10 Weightage)

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