20P265	(Pages: 2)	Name
		Reg. No

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2021

(CUCSS - PG)

CC19P CSS2 C07 - OPERATING SYSTEM CONCEPTS

(Computer Science)

(2019 Admissions - Regular)

Time: Three Hours Maximum: 30 Weightage

PART A

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

- 1. Explain different states of threads
- 2. What is Monitors?
- 3. Differentiate First fit, Best fit, and Worst fit strategies.
- 4. Explain the solutions to critical section problem
- 5. What is deadline scheduling?
- 6. Explain different process creation and termination reasons
- 7. Describe Service Oriented Architecture?

 $(4 \times 2 = 8 \text{ Weightage})$

PART B

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

- 8. Explain the different objectives and functions of the Operating system?
- 9. Describe Dining Philosophers Problem and its solution
- 10. Explain LRU page replacement algorithm
- 11. Describe the basic concepts of demand paging.
- 12. Explain the preemptive scheduling algorithm in detail.
- 13. Describe the role of Middleware in the client-server system.
- 14. Explain any two scheduling algorithms in detail.

 $(4 \times 3 = 12 \text{ Weightage})$

PART C

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

- 15. Describe the terms
 - a. Priority Inversion.
 - b. Scheduling Criteria
- 16. Explain deadlock detection and recovery.

- 17. Discuss the terms.
 - a. Thrashing
 - b. Virtual Memory
- 18. Explain different types of OS in the evolution stage

 $(2 \times 5 = 10 \text{ Weightage})$
