Name

21U208

B Sc DEGREE END SEMESTER EXAMINATION - JULY 2021

SEMESTER 2 : COMPUTER APPLICATION

COURSE : 19U2CRCAP3 - OPERATING SYSTEM

(For Regular - 2020 Admission and Supplementary - 2019 Admission)

Time : Three Hours

Max. Marks: 75

PART A Answer All (1 mark each)

- 1. Define Multiprogramming.
- 2. What you mean by degree of multiprogramming.?
- 3. What you mean by cascading termination?
- 4. Define Pull migration
- 5. Define dispatcher.
- 6. What you mean by Priority scheduling?
- 7. What is the term bounded waiting in critical secton?
- 8. Define fragmentation.
- 9. Define lazy swapper.
- 10. Define a file.

 $(1 \times 10 = 10)$

PART B

Answer any 8 (2 marks each)

- 11. Explain multiprocessing?
- 12. Explain distributed system?
- 13. Explain Multilevel Queue scheduling.
- 14. Differentiate bounded and unbounded capacity buffer?
- 15. What you mean by safe state?
- 16. What are the various methods for handling deadlocks?
- 17. What is a Semaphore? Also give the operations for accessing semaphores.
- 18. Explain about virtual memory?
- 19. What you mean by TLB?
- 20. What are the different operations performed on a file directory

(2 x 8 = 16)

PART C Answer any 5 (5 marks each)

- 21. Explain any three services of an Operating system.
- 22. Explain about shared memmory.
- 23. Explain about message Passing.
- 24. Explain about the operations of process.
- 25. Explain about critical section problem. What are the requirements of solution for the criticalsection problem?
- 26. Write a short note on contiguous memory allocation.
- 27. Explain different file allocation methods.

(5 x 5 = 25)

PART D Answer any 2 (12 marks each)

- 28. Explain batch processing and Time sharing with its advantages and disadvantages?
- 29. Explain about Non-preemptive scheduling algorithms.
- 30. Explain deadlock detection and recovery methods.
- 31. Explain different Page replacement algorithms.

(12 x 2 = 24)