அரசினர் ஆடவர் கலைக்கல்லூரி (தன்னாட்சி), நந்தனம், சென்னை – 35.

CODE: **196610** TIME: 3Hrs

NOVEMBER 2020 MAX. MARKS : 50

PART A *(10 x 2=20)*

*Answer any **TEN** questions*

1. List out the any four system calls.
2. What are the major features present in third-generation operating systems?
3. Write the advantage of timesharing.
4. What is the aim of multiprogramming?
5. What are the four principal events that cause processes to be created?
6. What is memory compaction?
7. What are the purposes of Device Drivers?
8. What are the functions of device-independent I/O software?
9. Define overlays.
10. What is meant by external fragmentation?
11. Define the exact rules for file naming.
12. What is Contiguous Allocation?

PART B *(2 x5=10)*

*Answer any **TWO** questions*

13. Briefly explain the history of Operating Systems.
14. Explain the system calls used in Process Control and File Management.
15. Explain the Overview Of Processes In Minix 3.
16. Discuss with neat diagram the Dining Philosophers Problem.
17. Explain the Principles of I/O Software.
18. Describe the deadlock Detection and Recovery.
19. Explain Implementation of the Minix 3 Process Manager.
20. Briefly explain Hierarchical Directory Systems

PART C *(2x10=20)*

*Answer any **TWO** questions*

21. Write a simple structuring model for a monolithic system.
22. Explain the Overview of the System Task.
23. Discuss the concept of I/O in MINIX 3.
24. Design Issues for Paging Systems Segmentation.
25. Briefly explain the security Protection Mechanisms
