

CODE: **162609**
NOVEMBER 2020

TIME: 3Hrs
MAX. MARKS : 50

(10 x 2=20)

PART A
*Answer any **TEN** questions*

1. What is an operating system?
2. Define system call.
3. What is classical problem?
4. Define process synchronization.
5. What is physical address space?
6. Define virtual memory.
7. What is file system structure?
8. List out the allocation methods of a file
9. Define access matrix.
10. What are program threats?
11. Define demand segmentation.
12. What is authentication?

PART B
*Answer any **TWO** questions*

(2 x 5=10)

13. What are the operating system services? Explain
14. Define deadlock. List the necessary condition for deadlock to happen.
15. With a neat diagram explain the concept of swapping.
16. Explain various free space management techniques.
17. Write about the properties of Linux operating system.
18. Explain First-in-First-out CPU scheduling algorithm.
19. Write short note on semaphore.
20. Explain about security in detail.

PART C
*Answer any **TWO** questions*

(2x10=10)

21. Explain Round Robin scheduling algorithm. Discuss its advantages and disadvantages.
22. Discuss in detail about (i) Deadlock Avoidance (ii) Deadlock Prevention.
23. Discuss about paging and explain the structure of any one of the page tables.
24. Define file. Explain file accessing methods and directory structure.
25. Write in detail about goals of protection and domain protection.
