Register No.:	
register 110	

397

October 2023

<u>Time - Three hours</u> (Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.
 - 2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART - A

- 1. What is an operating system?
- 2. What is GUI? Give one Example.
- 3. Define thread and list its types.
- 4. What is IPC?
- 5. What are the principles used in paging?
- 6. What is address translation?
- 7. What is disk formatting?
- 8. List any six file attributes.
- 9. List any six features of Linux.
- 10. What are the two types of security threats?

[Turn over.....

-Picidel

PART - B

- (a) (i) Explain system call execution with an example.(7)
 (ii) Explain monolithic operating system structure.(7)
 - (b) Explain the services provided by operating system.
- (a) (i) What is process? Explain process life cycle. (7)(ii) Discuss deadlock prevention and avoidance. (7)

(Or)

- (b) Explain any four scheduling algorithms.
- 13. (a) (i) Discuss the necessity of virtual memory. (7)
 (ii) Explain logical and physical address map. (7)

 (Or)
 - (b) Explain demand paging with neat diagram.
- 14. (a) Explain any two disk scheduling algorithms.

(Or)

- (b) With neat diagram, explain directory structure.
- 15. (a) With neat diagram, explain Linux architecture.

(Or)

- (b) (i) Explain how to create, modify and delete group accounts in Linux. (7)
 - (ii) Define Linux shell and explain types of Linux shell. (7)
