

828

Register No.:

November 2022

Time - Three hours
(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. List the three most common operating systems.
2. What is manipulation of the file system in operating system?
3. Define competition and co-operation in process.
4. Write about shared memory systems.
5. What is compaction?
6. Define virtual memory.
7. What are the three types of I/O devices?
8. List any three disk scheduling algorithms.
9. List any six features of Linux.
10. List any three advantages of shell scripts.

[Turn over.....

PART - B

11. (a) Explain any four operating systems.

(Or)

(b) Describe the types of system calls.

12. (a) Explain multiprocessor scheduling.

(Or)

(b) Explain critical section and mutual exclusion.

13. (a) Explain the two types of fragmentation.

(Or)

(b) With neat diagram, explain hardware and control structure used in virtual memory management.

14. (a) Explain physical and logical structure of a hard disk.

(Or)

(b) With example, explain SCAN and C-SCAN disk scheduling algorithm.

15. (a) Explain the components of Linux system.

(Or)

(b) Write shell script to create a basic math calculator using case statement.
