

S. B. Roll. No.....

OPERATING SYSTEMS
3rd Exam/CSE/IT/0395/Nov'24
(For 2018 Batch Onwards)

Duration: 3Hrs.

M.Marks:75

SECTION A

Q1. Do as directed.

15x1=15

- a. What is FCFS?
- b. List any one open source operating system.
- c. Can deadlock occur with one process?
- d. What is process Id?
- e. Does every unsafe state is deadlock state?
- f. Name one boot loader in Linux?
- g. _____ Command is used to remove files in Linux.
- h. SRTF means _____?
- i. _____ is a non-contagious memory allocation technique.
- j. Is command lists _____ in Linux?
- k. Linux kernel was invented by _____?
- l. Interpreter converts high level language into low level language. (T/F)
- m. Operating system is system software. (T/F)
- n. A page miss is when CPU demands a page and it is available in memory. (T/F)
- o. First come first serve is a priority scheduling. (T/F)

SECTION-B

Q2. Attempt any six questions.

6x5=30

- i. Write any 3 main functions of operating systems?
- ii. Discuss process state diagram with a neat diagram?
- iii. Briefly explain the four necessary conditions for a deadlock?
- iv. Describe Round robin scheduling algorithm?
- v. Discuss any 5 Linux Commands.
- vi. Explain Multiprogramming?
- vii. What is process synchronization? Discuss briefly.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. Discuss any 3 types of operating system in detail?
- b. What is a process and process control block? What information is kept in process control block?
- c. Discuss Linux operating system and its features in detail?
- d. Explain Bankers Algorithm in detail?
- e. Write a short note on any of the three.
 - i) Fragmentation
 - ii) Resource allocation Graph
 - iii) Context Switching
 - iv) Preemptive scheduling
 - v) Dispatcher