

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

**OPERATING SYSTEM**  
**3<sup>rd</sup> Exam/CSE/IT/9506/Nov'24**  
**(For 2023 Batch)**

**Duration: 3Hrs.**

**M.Marks:50**

**SECTION-A**

**Q1. Do as directed any nine of the following.**

**9x1=9**

- a. Full form of PCB.
- b. What is Context Switching?
- c. Define logical addressing?
- d. What is a Demand Paging?
- e. What is a Process?
- f. What is a Physical addressing?
- g. What is a Distributed OS?
- h. What is a virtual memory?
- i. Grep command is used for.
- j. What is a dedicated device?
- k. whoami command is used for.
- l. What is a spooling?

**SECTION-B**

**Q2. Attempt any five questions.**

**5x4=20**

- i. What do you mean by Process Synchronization? Explain it.
- ii. Explain various types of schedulers.
- iii. Explain Process States along with Diagram.
- iv. What are four necessary conditions of a Deadlock?
- v. Explain Process Control Block in Detail.
- vi. Explain File Management Techniques.
- vii. Explain the concept of Segmentation.

**SECTION-C**

**Q3. Attempt any three questions.**

**3x7=21**

- a. Explain various Methods for Handling Deadlock.
- b. Explain various types of Operating System in Detail.
- c. Explain Architecture along with features of Linux.
- d. What is the concept of Paging? Explain the need of Page Replacement Algorithms and its types in detail.
- e. Explain various types of Scheduling algorithms in Detail.