

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)

Chromepet, Chennai - 600 044.

B.Sc.Computer Science - END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER - V

20UCSCT5006 - Operating Systems

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Describe the Process States & Process Control Block.
2. Explain the Concept of Inter Process Communication.
3. Discuss about Semaphores and Its Types.
4. Illustrate the Conditions That Require Process Synchronization.
5. Classify Memory Hierarchy in Operating System.
6. Relate – How Loading and Linking is applied in Memory Management ?
7. Show – How Virtual Memory is working?
8. Infer the various File Accessing Modes.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Explain FCFS & RR Process Scheduling Algorithms.
10. Predict the Methods to Handle Deadlocks.
11. Examine the Non Contiguous Memory Allocation in OS.
12. Classify and Explain Page Replacement Algorithms.
13. Assess the Concept of Security and its types in Operating System.
