

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.(CS) END SEMESTER EXAMINATIONS APRIL-2023

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. Explain the Operating System Services.
2. Describe the concept of Semaphores.
3. Relate the Internal and External Fragmentation.
4. Explain Demand Paging in detail.
5. Explain: Thrashing.
6. Classification on Deadlock Detection Algorithms.
7. Describe Multithreading.
8. Examine the concepts of Files and its access methods.

Section C

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

9. Illustrate on various Scheduling Algorithms available in Operating Systems.
10. Describe the various methods for handling Deadlocks.
11. Associate the Non-Contiguous Allocation concepts in Operating Systems.
12. Classify the page replacement algorithms and explain any two.
13. Examine the System Security and Program Threats in detail.
