

Roll.No.

25UCGCT1001

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 with CGS - END SEMESTER EXAMINATIONS - NOVEMBER 2025  
SEMESTER - I

**25UCGCT1001 - 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 Operating System Services.
2. Explain about deadlock prevention
3. Relate on Demand Paging.
4. Illustrate about Free-Space Management.
5. Show and explain multithreading model.
6. Apply the internal and external fragmentation
7. Explain in detail about Thrashing.
8. Examine the user Authentication in detail.

### **Section C**

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

9. Illustrate the various types of system calls.
10. Relate on Semaphores in detail.
11. Determine the concept of dynamic loading and linking.
12. Apply the page replacement algorithms in detail.
13. Examine about File Directory Structures.

\*\*\*\*\*