

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.AI - END SEMESTER EXAMINATIONS - NOV'2024

SEMESTER - V

22UAICT5005 - 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 concept of 'Inter-process communication'.
2. Sketch the structure of OS and describe it.
3. Apply the concept of synchronization in a classical problem.
4. Illustrate the concept of Semaphores.
5. Describe the concept of Swapping with an example.
6. Classify the File access methods.
7. Interpret the 'Allocation methods of file system'.
8. Determine the concept of 'User Authentication'.

Section C

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

9. Classify the types of scheduling algorithms with suitable examples.
10. Predict the methods for handling Deadlocks.
11. Differentiate between Paging and Segmentation.
12. Categorize the 'Page replacement algorithms' with suitable examples.
13. Evaluate the process of 'Transforming 1/0 requests to hardware operations'.
