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.
BCA. END SEMESTER EXAMINATIONS APRIL-2022
SEMESTER - IV
20UCACT4006 - Operating System

Total Duration : 3 Hrs.   **Total Marks : 60**

Section A

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

1. What are the components of Operating system ?

2. Predict the rules for scheduling algorithms.

3. Relate the uses of semaphores.

4. Illustrate the various type of external fragmentation.

5. Define demand paging.

6. Classify access matrix in virtual memory.

7. Describe Kernal Modules in linux system ?

8. Relate the uses of thrashing in page replacement algorithm.

Section B

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

9. Show the importance of cooperative process in scheduling of operating system.

10. Examine the critical section in detail.

11. Compute the logical and physical address space of memory in swapping.

12. Assess the key elements of page replacement algorithms.

13. Examine the usage of memory management.

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