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 NOVEMBER-2022
SEMESTER - IV
20UCACT4006 - Operating Systems

Total Duration : 2 Hrs 30 Mins. **Total Marks : 60**

Section A

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

1. What are the various objectives and functions of Operating systems?
2. Explain about system calls.
3. Predict how semaphore can be used to solve critical section problem.
4. Illustrate about various Methods for handling Deadlocks.
5. Explain the steps involved in handling a page fault.
6. Classify the logical address and physical address.
7. Describe in detail about virtual memory and its advantages.
8. Determine the role of linux kernel in linux OS.

Section B

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

9. Describe the various CPU scheduling algorithms .
10. Classify deadlock prevention methods in detail.
11. Examine the basic concepts of segmentation in detail.
12. Apply the various Page Replacement Algorithms used for Page Replacement.
13. Evaluate the system memory management function in Linux.

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