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.
M.Sc.(CS) - END SEMESTER EXAMINATIONS APRIL - 2023
SEMESTER - III
20PCSCT3007 - Modern Operating System

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

Section B

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

1. Describe multiprocessor operating systems in detail.
2. Sketch the concept of threads in detail.
3. Relate the various Security defenses in OS.
4. Show the Requirement for Virtualization.
5. Illustrate mutual exclusion.
6. Relate how Process Migration is done in Process Management.
7. Sketch Authentication in OS.
8. Discriminate Type1 and Type2 Hypervisors.

Section C

I - Answer any **TWO** questions $(2 \times 10 = 20$ Marks)

9. Classify Multiprocessor and Multi Computer Scheduling.
10. Describe Deadlock Detection Algorithms in detail.
11. Distinguish various scheduling algorithms.
12. Criticize the formal models of secure systems.

II - Compulsory question $(1 \times 10 = 10$ Marks)

13. Evaluate any Case Study in VMWARE.

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