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. END SEMESTER EXAMINATION APRIL/NOV - 2021
SEMESTER - III
20PCSCT3007 - Modern Operating System

Total Duration : 3 Hrs		**Total Marks : 75**	
MCQ	: 30 Mins	MCQ	: 15
Descriptive	: 2 Hrs.30 Mins	Descriptive	: 60

Section B

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

1. What are the types of Multiprocessor Operating System?

2. What is deadlock? Explain deadlock Avoidance in detail.

3. Define thread and explain advantages of threads?

4. Desirable features of Global Scheduling Algorithm?

5. Explain multilevel security.

6. Explain the concept of virtual machines.

7. What are system calls? Explain different categories of system calls with example?

8. What are the essential characteristics of Clouds?

Section C

Part A

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

9. Explain the concept of Multicomputers and Hardware.

10. Explain in detail about Document Based and File System Based Middleware.

11. What are the Techniques for Efficient Virtualization?

12. Explain about Type1 and Type2 Hypervisors.

Part B

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

13. Explain Network Hardware and Services.