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 EXAMINATION APRIL/NOV - 2021
SEMESTER - V
08UCACT5011 **&** UCA/CT/5011- **Operating Systems**

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. Explain interprocess communication.

2. Describe any five criteria for process scheduling.

3. Briefly explain critical section problem.

4. Differentiate External and Internal fragmentation with example.

5. Describe the various aspects of demand-paging system.

6. Write a short note on Trashing.

7. Write a note on file management systems.

8. Describe the threats against computer systems.

Section C

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

9. Elaborate any four CPU- scheduling algorithms.

10. Explain the deadlock avoidance with Banker's algorithm.

11. Describe Page Replacement Algorithm LRU & FIFO.

12. Explain in detail the concept of segmentation with a neat diagram.

13. Discuss the file security and protection problems handled by operating system.