UCA/CT/5011

B.C.A. DEGREE EXAMINATION,APRIL 2018
III YEAR - V SEMESTER
Core Major- Paper XI - OPERATING SYSTEMS

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20 marks)$

Answer any **TEN** questions

1. What is system calls?
2. Define operating system.
3. What is a semaphore?
4. Name the methods for handling deadlocks.
5. Write the idea of overlays.
6. What is segmentation?
7. What is virtual memory?
8. List the basic file operations.
9. What are worms and viruses?
10. Define encryption.
11. Define process.
12. Mention the significance of FIFO page replacement.

Section B $(5 \times 5 = 25 marks)$

Answer any **FIVE** questions

13. Explain the operating - system services.
14. Briefly explain critical section problem.
15. Explain the logical and physical-address space.
16. Write a note on Demand Paging.
17. Discuss about I/O hardware.
18. Explain about monitors.
19. Write a note on file management systems.

P.T.O.

Section C $(3 \times 10 = 30 marks)$

Answer any **THREE** questions

20. Discuss on interprocess communication
21. Explain the important aspects associated with deadlock avoidance.
22. Give an overview of contiguous memory allocation.
23. Write a detailed note on thrashing.
24. Describe Kernel I/O subsystem.