UCS/CT/5006

B.SC. DEGREE EXAMINATION,APRIL 2018
III YEAR - V SEMESTER
Core Major Paper VI - OPERATING SYSTEMS

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

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

Answer any **TEN** questions

1. List down the 9 services of operating system.
2. Define file management
3. What is critical section?
4. Define semaphores.
5. What is a process?
6. Define paging.
7. What is virtual memory?
8. Define demand paging technique.
9. What is secondary storage?
10. What is Denial of service?
11. What is Threads?
12. Define process state.

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

Answer any **FIVE** questions

13. Discuss about Round Robin scheduling algorithm.
14. Explain in brief about Deadlock Prevention.
15. Discuss about paging concepts in main memory.
16. Explain the working of FIFO Page replacement.
17. Write short notes on contiguous allocation methods.
18. Discuss the concept involved protection in file system.
19. What are the 5 scheduling criteria? Explain.

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

Answer any **THREE** questions

20. Explain in detail about Interprocess Communication.
21. Discuss in detail about deadlock Avoidance.
22. How the segmentation concept is carried over in main memory? discuss in detail.
23. Explain in detail about the basic concepts of Demand paging.
24. Discuss in detail about security concepts in operating system.