B.Sc. DEGREE EXAMINATION,NOVEMBER 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. What is an operating system?
2. What do you mean by a Layered Approach?
3. What is a Semaphore?
4. What is a Process?
5. What is meant by context switch?
6. Define Deadlock.
7. What do you mean by best fit?
8. What is meant by segmentation?
9. Define Paging.
10. What is lazy swapper?
11. List the Three Basic functions of hardware clocks and timers.
12. Define Stream Cipher.

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

Answer any **FIVE** questions

13. What are Virtual machine? Explain
14. Explain the Critical section problem.
15. Explain inter process communication.
16. What is process state diagram? Explain.
17. Explain the partitioned memory allocation.
18. Explain in breif about Thrashing.
19. Describe various file operations.

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

Answer any **THREE** questions

20. What do you mean by multiprogramming? How it differs from time-sharing operating system?
21. Explain the following scheduling algorithms.
    (a) Round Robin (b) Shortest-Job-First
22. Discuss in detail about deadlock with example.
23. Explain the various techniques used in demand paged memory management.
24. Discuss in detail about security threats.

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