B.C.A. DEGREE EXAMINATION,NOVEMBER 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. Define Operating System.
2. What is thread?
3. Write the Syntax of a monitor.
4. What is deadlock?
5. Define fragmentation.
6. Expand the following a)PTLR b)TLB
7. What is Virtual memory?
8. Define Thrashing.
9. Define threats.
10. Why do we need I/O channel?
11. What is cache memory?
12. Define System calls.

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

Answer any **FIVE** questions

13. Write about PCB.
14. Explain the necessary conditions that occurs deadlock.
15. Discuss about the contiguous Allocation Memory Management.
16. Define File and specify the different attributes of file.
17. Explain the process of polling in brief.
18. Explain the different states of process in detail.
19. Explain about Secondary Storage structures.

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

Answer any **THREE** questions

20. Explain any two scheduling algorithm in detail.
21. Discuss banker's algorithm.
22. Elaborate the process of segmentation.
23. Describe optimal page replacement and LRU page replacement algorithms.
24. Explain the life cycle of I/O request with neat diagram.

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