

**BCA DEGREE END SEMESTER EXAMINATION MARCH 2017****SEMESTER – 2: BACHELOR OF COMPUTER APPLICATION (BCA) (CORE COURSE)****COURSE: 16U2CRBCA4 –: OPERATING SYSTEM***(For Regular - 2016 admission)*

Time: Three Hours

Max. Marks: 75

**PART A**Answer **all** questions

1. Define Operating System.
2. What do you mean by Multiprogramming?
3. Define Turnaround Time.
4. What do you mean by Thrashing?
5. What is virtual memory?
6. What do you mean by circular wait?
7. Define the terms pre-emptive and non-pre-emptive scheduling.
8. Define protection.
9. What is Worm?
10. What do you mean by compaction?

(1 x 10 = 10)

**PART B**Answer **any eight** questions

11. What is a System call?
12. What is Fragmentation? What are the two types of Fragmentation?
13. What is Firmware?
14. What is a Critical region?
15. What is a Hash table?
16. What is a Semaphore? What are the operations on a Semaphore?
17. What is meant by Segmentation?
18. What are File descriptors?
19. Define Program Threats?
20. What is Virus?

(2 x 8 = 16)

**PART C**Answer **any five** questions

21. Write a note on different types of Operating System.
22. Explain Demand paging with neat diagram.
23. Explain different file accessing methods.
24. What is Deadlock? What are the conditions necessary for Deadlock?
25. Explain in Detail about Context Switching.
26. Discuss two level Directory structure.
27. Explain different Security issues?

(5 x 5 = 25)

**PART D**Answer **any two** questions

28. Explain in detail different Page replacement algorithms.
29. Explain various CPU Scheduling algorithms.
30. Explain different Deadlock Avoidance algorithms.
31. What are different user authentication methods? Explain.

(12 x 2 = 24)

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