

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**SEMESTER EXAMINATIONS****NOVEMBER – 2017****15CCS5C/15CCA5C****OPERATING SYSTEM****Time : 3 Hrs****Max. Marks : 75****SECTION-A (10 x 2 = 20)****Answer ALL questions.**

1. Define operating system.
2. List out Multiuser operating system.
3. Define Deadlock.
4. Define context switching.
5. Define Virtual Memory.
6. Distinguish between paging and segmentation.
7. List out various protection mechanisms.
8. What is Encryption?
9. Define Worm.
10. Write the features of Window XP.

SECTION-B (5 x 5 = 25)**Answer any FIVE of the following questions.**

11. Write notes on operating system functions.
12. Define process. Illustrate the state of process with flow diagram.
13. Discuss on the four essential Condition of Deadlock Prevention.
14. Explain about file system in operating system.
15. Illustrate the function of FIFO Page Replacement Algorithm with example.
16. Discuss on Virus and its impacts towards Operating System.
17. Write notes on segmentation.
18. Discuss on the design principle of Windows XP.

SECTION-C (3 x 10 = 30)**Answer ALL questions.**

19. (a) Discuss in detail on the History of Operating System.
(Or)
(b) Explain in detail about the concept of Process Scheduling.
20. (a) Discuss in detail on contiguous memory allocation.
(Or)
(b) Explain the Major Authentication Security Problems in Operating Systems.
21. (a) Elaborate in detail about Paging.
(Or)
(b) Illustrate the working principle of Encryption.

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