Register No.:			14	
	12	33		

668

October 2017

<u>Time - Three hours</u> (Maximum Marks: 75)

[N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory. Answer any FOUR questions from the remaining in each PART – A and PART – B.

- (2) Answer division (a) or division (b) of each question in PART-C.
- (3) Each question carries 2 marks in PART A, 3 marks in Part B and 10 marks in PART C.]

PART - A

- 1. List any two components of operating system.
- 2. Define context switch.
- 3. Define page and frame.
- 4. What is turnaround time?
- 5. List any two file operations.
- 6. List the different file system structure.
- 7. What is Linux?
- 8. Define page fault.

PART - B

- 9. Define the concept of multiprogramming and time sharing.
- 10. What is a system call? Give one example.
- 11. Define pre emptive and non-pre emptive scheduling.
- 12. Describe the methods to recover deadlock.
- 13. What are the hardwares used for paging?
- 14. Explain the different types of files in Linux OS.
- 15. Explain any two file authentication methods.
- 16. Define sharing with an example.

PART - C

17. (a) Explain the concepts of virtual machine and booting.

(Or)

- (b) (i) Explain OS services of resource allocation and system protection.
 - (ii) Explain monolithic OS structure.
- 18. (a) Explain multiprocessor scheduling.

(Or)

- (b) (i) Explain semaphores.
 - (ii) Explain message passing techniques.
- (a) Explain the hardware and control structures for virtual memory.

(Or)

- (b) Explain the following page replacement policies: (i)FIFO (ii)NRU.
- 20. (a) Explain any two disk scheduling algorithms.

(Or)

- (b) Explain disk space allocation methods.
- 21. (a) Explain three levels of file security in Linux.

(Or)

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(b) (i) Explain the features of Linux OS.

(ii) Explain ext2 file system.