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Register No.:

April 2019

Time – Three hours
(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. What is command interpreter?
2. What are the types of schedulers?
3. Define critical section.
4. List any two disadvantages of paging.
5. Define demand paging.
6. What is encryption?
7. What is virtual file system?
8. Expand RAID.

PART – B

9. What is virtual machine? Give an example for operating system.
10. Write any two advantages of distributed operating system.
11. Describe pre emptive and non- pre emptive scheduling.
12. Define protection and sharing.
13. What is FMT? Describe its content.
14. Describe the two levels of disk formatting.
15. List any three features of Linux.
16. What is the basic file system in Linux and list any two flavours of Linux?

[Turn over....

PART – C

17. (a) Explain the generations of operating systems.

(Or)

(b) Explain OS component of process management and file management.

18. (a) Explain message passing techniques.

(Or)

(b) Explain: (i)Context switching (ii)Mutual exclusion.

19. (a) Explain internal and external fragmentation.

(Or)

(b) Explain the hardware and control structures for virtual memory.

20. (a) Explain about directory structure.

(Or)

(b) Explain sequential and random file access methods.

21. (a) With a neat diagram explain Linux architecture.

(Or)

(b) How a file system is mounted and un-mounted in Linux?
