

DECEMBER 2014 **P/ID 17512/PCASM**

Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. Write about time sharing systems.
2. Give the general system architecture with diagram.
3. Explain on deadlock detection.
4. Write on free-space management.
5. Discuss on swapping in memory management.
6. Write about access lists and groups.
7. Explain on file system organization.
8. Discuss about CPU scheduling in Unix.

PART B — (7 × 10 = 70 marks)

Answer any SEVEN questions.

9. Explain on system design and implementation.

10. Write about various system calls.
 11. Describe on semaphores with examples.
 12. Discuss on deadlock characterization.
 13. Write on segmentation in memory management.
 14. Explain about page replacement in virtual memory.
 15. Write about file-system access methods.
 16. Discuss on directory structure in file system interface.
 17. Give the programmer interface of Unix OS.
 18. Write about process management of Unix system.
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