

DECEMBER 2015

**P/ID 17512/  
PCASM**

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Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. What are System Calls? List out the types.
2. Give a short note on Dual mode Operation.
3. How is multiprocessor scheduled? Give a note.
4. What is meant by Swapping a process? Give a note on swapping two processes using a disk.
5. Give a brief note on Program Threads.
6. Give a note on the structure of the Page table.
7. Write about encryption technique.
8. What is Unix? How to access Unix systems?

PART B — (7 × 10 = 70 marks)

Answer any SEVEN questions.

9. Explain :
  - (a) Computer system organization.
  - (b) Computer system architecture.

10. Explain process, process state and Process scheduling.
  11. What are the classic problems of synchronization? Explain them.
  12. Explain scheduling algorithms.
  13. Describe Kernel I/O subsystems.
  14. What are the characteristics of deadlock? How to detect, prevent and avoid deadlock?
  15. What is segmentation? Explain page segmentation.
  16. Describe file access method and protection.
  17. Illustrate the Intrusion detection technique.
  18. How to create and remove directory in Unix? Explain file structure in Unix.
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