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06EE767

Seventh Semester B.E. Degree Examination, June/July 2011
Operating Systems

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions selecting at least TWO questions from each part.

PART – A

- 1 a. Define operating system. Explain the two views of an operating system. (10 Marks)
b. Name and explain any five operating system services. (10 Marks)
- 2 a. Define process. Explain the different states of a process with diagram. (10 Marks)
b. Explain the benefits of multithreaded programming. (10 Marks)
- 3 a. What are the circumstances that force CPU scheduling to take place? (06 Marks)
b. Explain Round-Robin scheduling Algorithm. (08 Marks)
c. What are the criteria to select the algorithm for c.p.u. scheduling? (06 Marks)
- 4 a. What are the necessary conditions which characterize the deadlock? Explain those conditions. (08 Marks)
b. Describe deadlocks in terms of system resource allocation graph. (12 Marks)

PART – B

- 5 a. Explain the concept of overlays for two-pass assembler. (08 Marks)
b. What is paging? Explain paging hardware with TLB. (12 Marks)
- 6 a. Describe the following allocation algorithms:
i) First fit ii) Best fit iii) Worst fit. (10 Marks)
b. Explain the cause of thrashing. (10 Marks)
- 7 a. Tabulate the functions of different files with their usual extension. (10 Marks)
b. Explain File system mounting with diagrams. (10 Marks)
- 8 a. Explain different network topologies with diagram. (10 Marks)
b. Explain the components of Unix system. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.