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10EC65

Sixth Semester B.E. Degree Examination, June/July 2017

**Operating System**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.**

**PART – A**

- 1 a. Explain the batch processing system with advantages and disadvantages. (10 Marks)  
b. Explain the goals and functions of operating system. (10 Marks)
- 2 a. Explain the differences between monolithic and layered based design. (10 Marks)  
b. Explain micro kernel based operating system. (10 Marks)
- 3 a. Explain programmers view and operating system view of processes. (10 Marks)  
b. Explain the difference between the threads and processes. (10 Marks)
- 4 a. Explain the difference between contiguous and non contiguous memory allocation. (10 Marks)  
b. Explain kernel memory allocation. (10 Marks)

**PART – B**

- 5 a. Explain virtual memory using paging. (10 Marks)  
b. Explain page replacement policies. (10 Marks)
- 6 a. Explain over view of input/output organization. (10 Marks)  
b. Explain allocation of disk place. (10 Marks)
- 7 a. Describe the real time scheduling. (10 Marks)  
b. Explain process scheduling in UNIX. (10 Marks)
- 8 a. Explain message passing with example. (10 Marks)  
b. Describe various interprocess communication schemes with UNIX example. (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.