SL-464

Total No. of Pages :1

Seat No.	

S.E. (Computer Science and Engineering) (Part - II) (Semester - IV) (Revised) Examination, May - 2017

OPERATING SYSTEM - I

Sub. Code : 63534

Day and Date : Wednesday,03-05-2017 **Total Marks :50**

Time : 9.00 a.m. to 11.00 a.m.

Instructions :
1) **Q. No. 1 and Q. No. 4 are compulsory.**
2) **Solve any one from Q. No. 2 and 3 and any one from Q. No. 5 and 6.**
3) **Assume suitable data wherever necessary.**

SECTION - I

Q1) a) What are the fundamental principles/ functions of an Operating System? [6]

b) Distinguish between Batch and Multiprogramming operating systems. [7]

Q2) a) Explain monolithic operating system. [7]

b) In a typical operating system structure, define policy and mechanism. [5]

Q3) a) What is PCB? Why it is required? What are its contents? [6]

b) What is context switching? What is the role of the dispatcher? [6]

SECTION - II

Q4) a) Carry out analysis of Round Robin Scheduling. [6]

b) Distinguish between Pre-emptive SJF and Non Preemptive SJF? [7]

Q5) a) Discuss the dining philosopher's problem. [6]

b) How are deadlocks characterized? Why a mutual exclusion condition is not considered? [6]

Q6) a) Why is safety algorithm used? What is the safe sequence? [6]

b) With the help of a diagram explain the concept of Paging. [6]

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