SV-194

Seat No.	

Total No. of Pages : 2

S.E. (C.S.E) (Part - II) (Semester - IV) (Revised) Examination, May - 2018
OPERATING SYSTEM-I
Sub. Code : 63534

Day and Date : Monday, 14-05-2018 **Total Marks : 50**
Time : 9.30 a.m. to 11.30 a.m.

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

SECTION-I

Q1) a) What is an Operating System? Explain user view and system view. **[5]**

b) Explain Multiprogramming operating systems. **[5]**

Q2) a) Define and explain race condition. **[5]**

b) Describe the difference among short-term, medium-term and long term scheduling. **[5]**

Q3) Write short notes on (any three): **[15]**

1) Scheduling Criteria

2) Semaphore

3) Thread.

4) Round-Robin Scheduling.

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SECTION-II

Q4) a) Explain Banker's algorithm? Write resource request algorithm. **[5]**

b) What is a Deadlock? What are the necessary conditions for deadlock? **[5]**

Q5) a) Explain TLB. **[5]**

b) What are the steps in handling a page fault? **[5]**

Q6) Write short notes on (any three): **[15]**

1) Resource allocation graph.

2) Swapping.

3) FIFO Page replacement.

4) I/O hardware.

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