K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)
Semester: July 2017- November 2017

Max. Marks: 30

Duration: 1hr.15 min.

Class: TY B.Tech

Semester: V

Branch: COMP

Course Code:

Test 1

Name of the Course: Operating System

Question No.	12 12 4 12 12 12 12 12 1	Max. Marks	*CO Mapped
Q.1	An I/O bound program is one that, if run alone, would spend more time waiting for I/O than using the processor. A processor bound program is opposite. Suppose a short-term scheduling algorithm favors those programs that have used little processor time in the recent past. Explain why this algorithm favors I/O bound programs and yet does not permanently deny processor time to processor-bound programs.	5M	CO1
	Define following terms: 1. Multi programming 2. Kernel 3. Multi-processing	5M	
Q.2	4. Process5. What is usually the critical performance requirement in an interactive operating system?		CO1
	OR In what way is the modular kernel approach similar to layered approach? In what way does it differ from the layered approach?	5M	,
Q.3	Explain 5 state process model. OR Describe the action taken by kernel to context switch between the processes.	5M	CO2

Process	Arrival Time	Execution Time	Priority		Miss. Marson 3
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В	1	4	3		IMOG educant
C	1	2	1		
D	2	5	3		
E	12	5	4		Question
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