Total No	o. of Questions : 4]	SEAT	No. :			
PC55		[Total No. of Pages : 2			
	[6360] 56		`			
T.E. (Information Technology) (Insem)						
OPERATING SYSTEMS (2019 Pattern) (Semester - I) (314442)						
	(2019 Lattern) (Semesti	31 - 1) (314442	,			
Time: 1			[Max. Marks: 30			
	ions to the candidates: \(\) Attempt Q1 or Q2, Q3 or Q4.		'O'			
1) 2)	Neat diagrams must be drawn wherever ne	ecessary.	\mathcal{C}			
3)	Figures to the right indicate full marks.	C				
4)	Assume suitable data, jf necessary.	4	200			
		Oc				
Q1) a)		sking and multip	rocessing? Discuss			
	with an example.	(C) ²	[5]			
		10 %				
b)	Define operating system. Discuss of	jectives and fur	actions of operating			
	system.	OX	[5]			
c)	Discuss following command with a	an example - pv	vd, ps, touch, fork,			
	uniq.		[5]			
	000					
	OR					
Q2) a)	Explain serial processing OS and sin	mple batch OS	[5]			
22) (a)	Explain solid processing of and sh	impre outen os.	9. Isl			
1. \	White a shall assist to identify and at	41) / 0.			
b)		ier the given stri				
	not.		[5]			
5		Cy S)			
c)	Describe the read and echo comma					
	scripting. Provide an example of ho	w you can use it	. [5]			
		6.				
		26.				
		Ú,				
	×		<i>P.T.O.</i>			

- **Q3)** a) How does a process more between different states in an operating system. Explain with the help of state transition diagram. [7]
 - Consider a multitasking OS, with four tasks, with the length of the CPU b) burst time given in milliseconds.

Process	Arrival Time	Burst Time	Priority
1	3	3	4
2	2	6	2
3	4	4	(3,6
4	5	2	6

Draw the Gantt chart. Using SJF (non premptive) and priority (premptive). Scheduling algorithms. Find average WT and average TAT also. [8]

- Illustrate the difference between process and thread. Explain the typical **Q4)** a) entries in PCB and thread control block. [7]
 - Explain the various types of processor schedules with the help of process b) state transitions.