Score:	Name:
	ECE 3055 Quiz - November 16, 2011

The following processes arrive for execution at the times indicated. Use preemptive scheduling for SRTF and RR. Base all decisions on the information you have at the time the decision is made. At arrival time, the burst execution time is known. For RR and SRTF, assume a newly arrived process is in the ready queue just prior to its arrival time (i.e. it is already in the ready queue just before a running process is stopped and added to tail of the ready queue at a time slice.) Fill in the time lines and the table and blanks at the bottom of the page.

just prior to its ar added to tail of the of the page.												
Process		Arrival	Time					CPII	Burst or	Evecution	n Tim	
P1	Arrival Time 0.0ms (first(i.e., head) in queue at t=0)))	CIU	5ms	Execution	<u> </u>	<u>ic</u>
P2	0.0ms (second(i.e., end) in queue at t							2ms				
P3		2.0ms							1ms			
P4	4 3.0ms								4ms			
Draw a Gantt cha	rt using	FCFS:										
	Pι				P2_		P3		P4			
0 1	2	3	4	5	6	7	•	8	9	10	11	12
Draw a Gantt cha	rt using	SJF (no p	reemp	tion):								
p2	[P3			P4			-	71				
0 1	2	3	4	5	6	7		8	9	10	11	12
Draw a Gantt cha	P 3	SRTF:		P4				PΙ				— ₁
0 1	2	3	4	5	6	7		8	9	10	11	12
Draw a Gantt cha	rt using	RR with	time sl	lice = 1r	ns:							
1 61 65	PI	P3	P	2/1	24 P	11	PY	Pi	P	f P1	P	41
pl Pl	PI PZ	P3 1	P4	P4	6 P1 P4	PZ		8	9	10	11	12
	Averag	e Turnai	ound	Time		· A	verag	e Wait	Time			
FCFS	G.	75				_	3.7	15	· 			
SJF	4.	15				<u>.</u>	1,	75				
(no preemption) SRTF	4.	15				_	1.5	75				
RR	6	75				_	3.	75				
In general, the		R	R			s	chedul	ling alg	orithm w	ould typic	cally h	ave
			-	0 -	-1							

non-preemptive scheduling

the best response time, and the _______S algorithm would provide the optimal wait time.