BIRLA INSTITUTE OF TECHNOLOGY DEOGHAR CAMPUS OUT: FIRST

			`	QUIZ. FIRST					
Name :						No:			
SUBJ	SUBJECT: CS 239 Operating System Time: 50								
Sem.:	IVth Bra	nch: CSE Ses		sion: SP/24		Full Marks:	ks: 10		
	ictions: Attempts all the (Duestions							
	Overwriting mea		Set: B						
Q. 1.							vice is [1 Mark]		
Q.2.	Saving the state of the old process and loading the saved state of the new process is called								
	(a) Context Switch	(b) Process	s State	(c) PCB	(d) program co	ounter	[1 Mark]		
Q.3.	Long Term Schedu	ıler is known a	ıs		wh	ile			

Q. 5. Suppose that the following processes arrive for execution at the times indicated. Each process will run the listed amount of time.

Process	Arrival Time	CPU Burst Time		
P1	0	3		
P2	2	6		
Р3	4	4		
P4	6	5		
P5	8	2		

Answer the following questions:

Draw the Gantt chart and calculate the average waiting time for the following Scheduling algorithms.

(a) Highest Response Ratio Scheduling algorithm

Short Term scheduler is known as.

[2marks]

[1 Mark]

(b) Shortest Process Next (Non-Preemptive SJF) Scheduling algorithm

[2marks]

Q.6. Consider the following Process Precedence graph. And process service time is given in the table. We assume that processes do not perform I/O operations and are serviced in a non-preemptive manner. The total of service times of the processes is 35 seconds. If the application has to response in 35 seconds. [2marks]

What is the deadline for the each process?

Process	P1	P2	P3	P4	P5	P6	P7
Service time (second)	5	4	3	7	8	5	3

