- 1. Discuss how the following pairs of scheduling criteria conflict in certain settings.
- a) Average turnaround time and maximum waiting time
- b) I/O device utilization and CPU utilization

2.

- a) How does SRT differ from SPN?
- b) What feature is common between SPN, SRT and HRRN?
- 3. Explain the difference in degree to which the following scheduling algorithms discriminate in favor of short jobs.
 - (i) FCFS
 - (ii) RR
 - (iii)feedback
- 4. Consider the following set of processes:

Process	Arrival Time	Service Time
A	0	3
В	1	5
С	3	2
D	9	5
Е	12	2

- a) Show the schedule using FCFS, RR with quantum of 1, SPN, SRT and HRRN.
- b) Find the normalized turnaround time of each process for the scheduling algorithms in
- a).

Sel	lf-te	st

1.	The	scheduler executes most frequently and makes the fine-grained
decisio	on of which proce	ess to execute next.
A)	long-term	
B)	I/O	
C)	medium-term	
D)	short-term	
2.	Response time i	n an interactive system is an example of:
A)	_	teria for long-term scheduling policies
B)		criteria for short-term scheduling policies
C)	-	criteria for long-term scheduling policies
D)	-	teria for short-term scheduling policies
		δ Γ
3.	Giving each pro	ocess a slice of time before being preempted is a technique known as
		and a second sec
A)	FCFS (first-com	e-first-serve)
B)	RR (round-robin	,
C)	SPN (shortest-p	
D)	priority	
2)	priority	
4.	The need to kno	ow or estimate required processing time for each process and lack of
	ption are difficult	
A)	FCFS (first-com	
B)	RR (round-robin	
(C)	SPN (shortest-p	,
D)	priority	iocess new)
D)	priority	
5.	To determine th	ne quantum size for round-robin, we should take the following into
	leration.	,
A)		be smaller than most of the CPU bursts.
B)		I be large compared to the context switching time.
C)		be small in order to preempt the running process frequently.
D)		be larger than the largest CPU burst.
2)	Quantonii siiouit	to a mager than the magest of o contour
6.	SC	cheduling algorithms have a risk of the possibility of starvation.
(i)	FCFS (first-com	
(ii)	SPN (shortest-p	, , , , , , , , , , , , , , , , , , ,
(iii)	RR (round-robin	
(iv)	priority	·/
(1V) A)	(ii) only	
B)	(ii) and (iv)	
	• • • • • • • • • • • • • • • • • • • •	
C)	(iii) only	
D)	(i) and (iii)	