- 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).

Self-test

1.	The	scheduler executes most frequently and makes the fine-grained	
decisio	on of which proces	s to execute next.	
A)	long-term		
B)	I/O		
C)	medium-term		
D)	short-term		
2.	-	an interactive system is an example of:	
A)	user-oriented criteria for long-term scheduling policies		
B)	system-oriented of	criteria for short-term scheduling policies	
C)	system-oriented of	criteria for long-term scheduling policies	
D)	user-oriented crit	eria for short-term scheduling policies	
2	C::		
3.	Giving each proc	sess a slice of time before being preempted is a technique known as	
A)	FCFS (first-come	e-first-serve)	
B)	RR (round-robin)	,	
C)	SPN (shortest-pro		
D)	priority	,	
,	1 7		
4.		w or estimate required processing time for each process and lack of	
preemp		es with the scheduling algorithm	
A)	FCFS (first-come	e-first-serve)	
B)	RR (round-robin)		
C)	SPN (shortest-pro	ocess-next)	
D)	priority		
5.	To determine the	e quantum size for round-robin, we should take the following into	
	eration.	e quantum size for found-foom, we should take the following into	
		be smaller than most of the CPU bursts.	
A)	•		
B)	_	be large compared to the context switching time.	
C)		be small in order to preempt the running process frequently.	
D)	Quantum snoutd	be larger than the largest CPU burst.	
6.		neduling algorithms have a risk of the possibility of starvation.	
(i)	FCFS (first-come	e-first-serve)	
(ii)	SPN (shortest-pro	ocess-next)	
(iii)	RR (round-robin)		
(iv)	priority		
A)	(ii) only		
B)	(ii) and (iv)		
C)	(iii) only		
D)	(i) and (iii)		