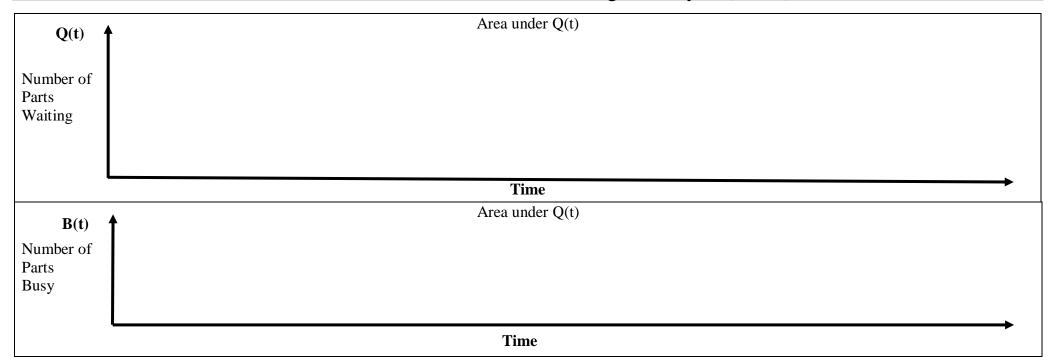# Hand Simulation – Simulation Modelling & Analysis (IE630)

Name:

Just Finished Event			Variables		Attributes		Event Calendar			Statistical Accumulators		
Entity ID	Time	Event	Q(t)	B(t)	Arrival times	In Service	Entity ID	Time	Event Type	P (Total parts produced so far)	TS* (maximum total time observed in the system)	QS* (Maximum time in queue observed so far)

Hand Simulation – Simulation Modelling & Analysis (IE630)

Q(t)

Number of
Parts
Waiting

Area under Q(t)

Time

B(t)

Number of
Parts
Busy

Area under Q(t)

Time

1. Total number of productions of parts.	
2. Average waiting time in queue	
3. Maximum waiting time in queue	
4. Average total time in system	
5. Maximum total time in system	
6. Average number of parts in queue.	
7. Maximum number of parts in queue	
8.Utilization of server	
9. Total waiting time of server	
10. Total Idle time of server.	

Part No	Arrival Time	Inter arrival Time	Service Time	Time in Q (Di)	Time in System (Ei)	Departure Time (Fi)
1	0	1.73	2.9			
2		1.35	1.76			
3		0.71	3.39			
4		0.62	4.52			
5		14.28	4.46			
6		0.7	4.36			
7		15.52	2.07			
8		3.15	3.36			
9		1.76	2.37			
10		1	5.38			