COMP9334 Revision Questions for Week 1B

These questions are taken from Chapter 3 of Mensace et al. "Performance by Design". The questions are Q 5, 6, 7 and 10 from Chapter 3. They have been reproduced below for your convenience.

In addition, there are two questions on Poisson process.

- 5. A transaction processing system is monitored for one hour. During this period, 5,400 transactions are processed. What is the utilization of a disk if its average service time is equal to 30 msec per visit and the disk is visited three times on average by every transaction?
- 6. The average delay experienced by a packet when traversing a computer network is 100 msec. The average number of packets that cross the network per second is 128 packets/sec. What is the average number of concurrent packets in tradition to the contradition of the packets are the packets in tradition to the contradition of the packets are the packets in tradition to the packets are the packets
- 7. A file server is monitored for 60 minutes, during which time 7,200 requests arttopslete provide the file of the assured to be 30%. The average service time at this disk is 30 msec per file operation request. What is the average number of accesses to this disk per file request? Add we chat powcoder