NAME:	

EE444 Introduction to Computer Networks

February 27, 2018 Quiz #1 A GROUP

CLEARLY STATE YOUR ASSUMPTIONS, SHOW ALL YOUR WORK

1))	Conside	er the	queuing	system	below	٧.
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Average packet size=100 bits/packet

a)	What is the average service rate (μ) ?
b)	What is the utilization of the server (ρ) ?
2)	a) Which layer's service does Transport layer use?
	b) Which layer uses Transport Layer's services?

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EE444 Introduction to Computer Networks

February 27, 2018 Quiz #1 B GROUP

CLEARLY STATE YOUR ASSUMPTIONS, SHOW ALL YOUR WORK

1) Consider the queuing system below. The average interarrival time is 0.25 sec/packet.
Queue Server $\lambda \longrightarrow C=500 \text{bits/sec}$
Average packet size=100 bits/packet
a) What is the expected service time (E[S])?
b) What is the utilization of the server (ρ)?
2) a) Which layer's service does Network layer use? b) Which layer uses Network Layer's services?