NAME:	Q1 (1)	Q2 (1)	Q3 (1)	Q4 (1)	Q5 (1)	TOTAL (5)
ID:						
SIGNATURE:						

October 2, 2018

BLG 337E - PRINCIPLES OF COMPUTER COMMUNICATIONS
Assoc.Prof.Dr. Berk CANBERK
T.A. Tuğçe BİLEN

QUIZ-1

Q1- (1 point)
What are the main layers of the ISO/OSI reference model? Give one sentence for each layer.
ANSWER: See slide 34 in 18092018.

Q2- (1 point)
Which three factors affect the data rate?
ANSWER: See slide 24 in 25092018.

Q3- (1 point)
Briefly discuss the differences between the Nyquist theorem vs Shannon Theorem.
ANSWER: See slide 38 in 25092018.

Q4- (0.25x4=1 point)
Discuss the following statements:
4a- The bit rate of a system **decreases** with an increase in the number of signal levels
ANSWER: See slide 26 in 25092018.

4b- At a given noise level, high data rate means **lower** error rate
ANSWER: See slide 23 in 25092018.

4c- Attenuation is unwanted signals inserted between transmitter and receiver
ANSWER: See slides 19 and 20 in 25092018.

4d- Higher bandwidth gives higher data rate
ANSWER: See slide 13 in 25092018.

Q5- (1 point)
Consider an extremely noisy channel in which the value of the signal-to-noise ratio is almost zero. What is the capacity of channel?
ANSWER: See slide 32 in 25092018.

DURATION: 30min