

ECO239 Quiz 3 (Dec. 20. 2018) ID _____; Name _____

Question 1: Toss a coin three times. Set X as the number of heads in 3 tosses. Construct the probability distribution table and draw the probability distribution.

X	Probability

Question 2 [Binomial Distribution] 25% of students admitted to university A will actually enroll. What is the probability that at least 1 student will enroll if the college offers admission to 5 students?

Question 3 [Hypergeometric Distribution] A company receives a shipment of 20 items. A random sample of 6 items is selected and the shipment is rejected if more than one item proves to be defective. What is the probability of accepting a shipment containing 5 defective items?

Question 4 [Poisson Distribution] Customers arrive at a pizza shop at an average rate of 5 every one hour. Find the probability that more than two customers arrive in a 12-minute period.