

King Fahd University of Petroleum & Minerals
Department of Mathematics & Statistics
STAT-319-Term173
Quiz #2-4/10/2018

Name:

ID:

Serial:

Q1: A batch of 500 machined parts contains 10 that do not conform to customer requirement.

1. Two are selected, at random, without replacement from the batch. What is the probability that both are not conform to customer requirement?
2. Five are selected, at random, without replacement, from the batch. What is the probability that at least one is not conform to customer requirement?

Q2: The number of flaws in a fiber optic cable with an average of 0.6 per 100 feet.

- a. Find the probability of exactly 1 flaw in a 200-foot cable.
- a. Find the probability of exactly 2 flaws in the first 100-feet **or** exactly 1 flaw in the second 200 feet.