King Fahd University of Petroleum & Minerals
Department of Mathematics & Statistics
STAT-211-Term171
Quiz #3

Name: ID: Serial:

Q1: In a large shipment of automobile tires, 10% have a flaw.

1. If we select 6 tires at random ***without replacement*** from a lot of 60 tires, what is the probability that the first two tires will have flaws but the others will be good?

2. If we select 6 tires at random ***without replacement*** from a lot of 60 tires, what is the probability that any two tires will have flaws?

3. If we select 3 tires at random ***with replacement*** from a lot of 60 tires, what is the probability that any two tires will have flaws?

Q2: A computer time-sharing system receives telephone inquiries at an average rate of 0.1 per minute. Find the probability that the number of inquiries in a particular 30-second stretch will be less than 2.