

King Fahd University of Petroleum & Minerals
Department of Mathematics & Statistics
STAT-319-Term162
Quiz #2

Name: _____

ID: _____

Serial: _____

Q 1: Consider the following out come for experiment:

Outcome (x)	1	2	3	4	5
Probability p(x)	0.2	0.25	0.15	0.10	0.30

- a. Let event A consist of the outcomes 1, 3, and 5 and event B consist of outcome 4 and 5. Find the probability the either A or B occurs.
- b. Find the mean and standard deviation of the outcome of the experiment.

Q 2: Mohammad is applying for 8 jobs and believes that he has in each case the same probability of 0.42 getting an offer. What is the probability of getting at most three offers?

Q 3: If the number of fish a person catches per hour at lake having a Poisson distribution with mean 2.8, find the probability that a person fishing for two hours will catch at most 3.

Q 4: In a class of 25 students, 18 living inside KFUPM. Six students are selected from this list, find the probability that at most 3 living outside KFUPM.