## Department of Mathematics and Statistics KFUPM STAT 301-01 Quiz#1, Time: 40 mins

Student's Name:	ID:
Q.No.1:- A president, treasurer, and secretary, a many different choices of the officers are possible (a) there is no restriction?	ll different, are to be chosen from a club of 10 people. How le if
(b) A and B will not serve together?	
(c) C and D will serve together or not at all?	
(d) E must be an officer?	
(e) F will serve only if he is president?	

Q.No.2:- A student is to answer 7 out of 10 questions in an examination.  (a) How many choices has she?	
(a) How many choices has she:	
(b) How many if she must answer at least 3 of the first 5 questions?	
Q.No.3:- Box A contains 3 red and 3 black balls, whereas box B contains 4 red and 6 black balls. If a ball is randomly selected from each box, what is the probability that the balls will be the same color?	
Q.No.4:- 3 balls are randomly selected, without replacement, from a box that contains 5 red and 6	
white balls. Find the probability that at least one ball of each color is chosen.	