KFUPM | Term 111 | Date: 26/12/2011
Mathematics & Statistics | STAT 319 | Duration: 15 minutes
Quiz# 7

Name: ID #: Section 6 Serial #:

Suppose that you are doing a study concerning the percentage of smokers among the university students thinking that at most 30% of the university students are smokers.

a. At 98% confidence level, find the minimum number of students to be, randomly, selected to estimate the true proportion of smokers, among the university students, within a maximum error of 0.08.

b. Based on part (a), is the needed assumption satisfied? Explain.

c. Using the *p*-value approach, if the students selected in part (a) resulted in 67 smokers among them, does this selected sample support your thought, at 1% level of significance?

With My Best Wishes