

Probability & Statistics
Quiz #1
Total Marks: 10 marks (CLO-1)

- Q1.** Suppose the manufacturer's specifications for the length of a certain type of computer cable are 2000 ± 10 millimeters. In this industry, it is known that small cable is just as likely to be defective (not meeting specifications) as large cable. That is, the probability of randomly producing a cable with length exceeding 2010 millimeters is equal to the probability of producing a cable with length smaller than 1990 millimeters. The probability that the production procedure meets specifications is known to be 0.99.
- (a) What is the probability that a cable selected randomly is too large?
 - (b) What is the probability that a randomly selected cable is larger than 1990 millimeters?