## King Fahd University of Petroleum & Minerals Department of Mathematics & Statistics STAT-211-Term111 Quiz #1

Name:	ID:	Serial:

Q1: The manager of the customer service division of a major consumer electronics company is interested in determining whether the customers who have purchased a videocassette recorder made by the company over the past 12 months are satisfied with their products.

- 1. The population of interest is
  - a) all the customers who have bought a videocassette recorder made by the company over the past 12 months.
  - b) all the customers who have bought a videocassette recorder made by the company and brought it in for repair over the past 12 months.
  - c) all the customers who have used a videocassette recorder over the past 12 months.
  - d) all the customers who have ever bought a videocassette recorder made by the company.
- 2. The possible responses to the question "Are you happy, indifferent, or unhappy with the performance per dollar spent on the videocassette recorder?" are values from a
  - a) discrete numerical random variable.
  - b) continuous numerical random variable.
  - c) categorical random variable.
  - d) parameter.
- 3. The possible responses to the question "How much time do you use the videocassette recorder every week on the average?" are values from a
  - a) discrete numerical random variable.
  - b) continuous numerical random variable.
  - c) categorical random variable.
  - d) parameter.
- 4. The possible responses to the question "What brand of videocassette recorder did you purchase?" are values from a
  - a) discrete numerical random variable.
  - b) continuous numerical random variable.
  - c) categorical random variable.
  - d) parameter.
- 5. The possible responses to the question "Out of a 100 point score with 100 being the highest and 0 being the lowest, what is your satisfaction level on the videocassette recorder that you purchased?" are values from a
  - a) discrete numerical random variable.
  - b) continuous numerical random variable.
  - c) categorical random variable.
  - d) parameter.

- 6. The possible responses to the question "How many videocassette recorders made by other manufacturers have you used?" result in
  - a) a nominal scale variable.
  - b) an ordinal scale variable.
  - c) an interval scale variable.
  - d) a ratio scale variable.
- 7. The possible responses to the question "Are you happy, indifferent, or unhappy with the performance per dollar spent on the videocassette recorder?" result in
  - a) a nominal scale variable.
  - b) an ordinal scale variable.
  - c) an interval scale variable.
  - d) a ratio scale variable.
- 8. The possible responses to the question "How much time do you use the videocassette recorder every week on the average?" result in
  - a) a nominal scale variable.
  - b) an ordinal scale variable.
  - c) an interval scale variable.
  - d) a ratio scale variable.
- 9. The possible responses to the question "How many people are there in your household?" result in
  - a) a nominal scale variable.
  - b) an ordinal scale variable.
  - c) an interval scale variable.
  - d) a ratio scale variable.
- 10. The possible responses to the question "How would you rate the quality of your purchase experience with 1 = excellent, 2 = good, 3 = decent, 4 = poor, 5 = terrible?" result in
  - a) a nominal scale variable.
  - b) an ordinal scale variable.
  - c) an interval scale variable.
  - d) a ratio scale variable.

Q2: A manufacturer of children toys claims that less than 5% of his products are defective. When 500 toys were drawn from a large production run, 8% were found to be defective.

- a. What is the population of interest?
- b. What is the sample?
- c. What is the parameter?
- d. What is the statistic?
- e. Does the value 5% refer to the parameter or the statistic? Why?