Quiz # 1 semester 172 Section: 02

NAME: ID #: Serial #:

1. The universe or "totality of items or things" under consideration is called
    a) a sample.
    b) a population.
    c) a parameter.
    d) a statistic.

2. The portion of the universe that has been selected for analysis is called
    a) a sample.
    b) a frame.
    c) a parameter.
    d) a statistic.

3. A summary measure that is computed to describe a characteristic from only a sample of the population is called
    a) a parameter.
    b) a census.
    c) a statistic.
    d) the scientific method.

4. To monitor campus security, the campus police office is taking a survey of the number of students in a parking lot each 30 minutes of a 24-hour period with the goal of determining when patrols of the lot would serve the most students. If X is the number of students in the lot each period of time, then X is an example of
    a) a categorical random variable.
    b) a discrete random variable.
    c) a continuous random variable.
    d) a statistic.

5. Researchers are concerned that the weight of the average American school child is increasing implying, among other things, that children's clothing should be manufactured and marketed in larger sizes. If X is the weight of school children sampled in a nationwide study, then X is an example of
    a) a categorical random variable.
    b) a discrete random variable.
    c) a continuous random variable.
    d) a parameter.

6. The chancellor of a major university was concerned about alcohol abuse on her campus and wanted to find out the proportion of students at her university who visited campus bars on the weekend before the final exam week. Her assistant took a random sample of 250 students. The total number of students in the sample who visited campus bars on the weekend before the final exam week is an example of
    a) a categorical random variable.
    b) a discrete random variable.
    c) a continuous random variable.
    d) a parameter.

7. The chancellor of a major university was concerned about alcohol abuse on her campus and wanted to find out the proportion of students at her university who visited campus bars on the weekend before the final exam week. Her assistant took a random sample of 250 students. The portion of students in the sample who visited campus bars on the weekend before the final exam week is an example of _____.
    a) a categorical random variable.
    b) a discrete random variable.
    c) a parameter.
    d) a statistic

8. The chancellor of a major university was concerned about alcohol abuse on her campus and wanted to find out the proportion of students at her university who visited campus bars on the weekend before the final exam week. Her assistant took a random sample of 250 students. The portion of students in the sample who visited campus bars on the weekend before the final exam week is an example of _____.
    a) a categorical random variable.
    b) a discrete random variable.
    c) a continuous random variable.
    d) a parameter.

TABLE A. (Questions 9 to 23 are about Table A)

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.

9. 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.

10. 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.

11. The possible responses to the question "What is your annual income rounded to the nearest thousands?" are values from a
    a) discrete numerical random variable.
    b) continuous numerical random variable.
    c) categorical random variable.
    d) parameter.

12. 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.

13. The possible responses to the question "How many people are there in your household?" are values from a
    a) discrete numerical random variable.
    b) continuous numerical random variable.
    c) categorical random variable.
    d) parameter.

14. 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.

15. The possible responses to the question "In which year were you born?" are values from a
    a) discrete numerical random variable.
    b) continuous numerical random variable.
    c) categorical random variable.
    d) parameter.

16. 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.

17. 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.

18. The possible responses to the question "What is your annual income rounded to the nearest thousands?" result in
    a) a nominal scale variable.
    b) an ordinal scale variable.
    c) an interval scale variable.
    d) a ratio scale variable.

19. 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.

20. 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.