

EXERCISES

STAT – 109

BIOSTATISTICS

Q1: For each of the following variables indicate whether it is quantitative or qualitative variable:

- (a) The blood type of some patient in the hospital.
 - (b) Blood pressure level of a patient.
 - (c) Weights of babies born in a hospital during a year.
 - (d) Gender of babies born in a hospital during a year.
 - (e) The distance between the hospital to the house .
 - (f) Under-arm temperature of day-old infants born in a hospital.
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Q2: For each of the following situations, answer questions (a) through (d):

- (a) What is the population?
- (b) What is the sample in the study?
- (c) What is the variable of interest?
- (d) What is the type of the variable?

Situation A: A study of 300 households in a small southern town revealed that if she has school-age child present.

Situation B: A study of 250 patients admitted to a hospital during the past year revealed that, Distance the patient live away from the hospital .

Q3: Choose the right answer:

1-The variable is a

- a. subset of the population.
- b. parameter of the population.

- c. relative frequency.
- d. characteristic of the population to be measured.
- e. class interval.

2-Which of the following is an example of discrete variable

- a. the number of students taking statistics in this term at KSU.
- b. the time to exercise daily.
- c. whether or not someone has a disease.
- d. height of certain buildings.
- e. Level of education.

3-Which of the following is not an example of discrete variable

- a. the number of students at the class of statistics.
- b. the number of times a child cry in a certain street.
- c. the time to run a certain distance.
- d. the number of buildings in a certain street.
- e. number of educated persons in a family.

4-Which of the following is an example of qualitative variable

- a. the blood pressure.
- b. the number of times a child brush his/her teeth.
- c. whether or not someone fail in an exam.
- d. Weight of babies at birth.
- e. the time to run a certain distance.

5-The continuous variable is a

- a. variable with a specific number of values.
- b. variable which can't be measured.
- c. variable takes on values within intervals.
- d. variable with no mode.
- e. qualitative variable.

6- which of the following is an example of continuous variable

- a. The number of visitors of the clinic yesterday.
- b. The time to finish the exam.
- c. The number of patients suffering from certain disease.
- d. Whether or not the answer is true.

7- The discrete variable is

- a-qualitative variable.
- b-variable takes on values within interval.
- c-variable with a specific number of values.
- d-variable with no mode.

8-Which of the following is an example of nominal variable :

- a-age of visitors of a clinic.
- b-The time to finish the exam.
- c-Whether or not a person is infected by influenza.
- d-Weight for a sample of girls .

9-The nominal variable is a

- a-A variable with a specific number of values
- b-Qualitative variable that can't be ordered.
- c-variable takes on values within interval.
- d-Quantitative variable .

10-Which of the following is an example of nominal variable :

- a-The number of persons who are injured in accident.
- b-The time to finish the exam.
- c-Whether or not the medicine is effective.
- d-Socio-economic level.

11-The ordinal variable is :

- a-variable with a specific number of values.
- b-variable takes on values within interval.
- c-Qualitative variable that can be ordered.
- d-Variable that has more than mode.