Started on	Tuesday, 30 November 2021, 11:04 PM
State	Finished
Completed on	Tuesday, 30 November 2021, 11:17 PM
Time taken	12 mins 21 secs
Marks	24.00/25.00
Grade	**9.60** out of 10.00 (**96**%)

Question **1**

Incorrect

Mark 0.00 out of 1.00

Data that describe a characteristic about a population is known as a _____ .

- ○ a. None of the other choices is true
- ○ b. survey
- ○ c. sample
- ○ d. parameter
- ◉ e. statistic ✖

Your answer is incorrect.

The correct answer is:
parameter

Question **2**

Correct

Mark 1.00 out of 1.00

Which of the following is a discrete quantitative variable?

- ○ a. The distance you drove yesterday
- ◉ b. The number of employees of an insurance company ✔
- ○ c. The Dow Jones Industrial average
- ○ d. The volume of water released from a dam

Your answer is correct.

The correct answer is:
The number of employees of an insurance company

Question **3**

Correct

Mark 1.00 out of 1.00

A _____ is a portion of a population that is representative of the population from which it is selected.

- a. sample ✔
- b. None of the other choices is true
- c. parameter
- d. population
- e. survey

Your answer is correct.

The correct answer is:
sample

Jared was working on a project to look at global warming and accessed an Internet site where he captured average global surface temperatures from 1866. Which of the four methods of data collection was he using?

- ⦿ a. Retrospective study ✔
- ○ b. Experimentation
- ○ c. Observation
- ○ d. Surveying

Your answer is correct.

The correct answer is:
Retrospective study

Question 5

Correct

Mark 1.00 out of 1.00

Those methods involving the collection, presentation, and characterisation of a set of data in order to properly describe the various features of that set of data are called _____

- a. statistical inference
- b. the scientific method
- c. descriptive statistic ✔
- d. sampling

Your answer is correct.

The correct answer is:
descriptive statistic

Question **6**

Correct

Mark 1.00 out of 1.00

How many baseball teams of nine members can be chosen from among twelve boys, without regard to the position played by each member?

- a. 1150
- b. 220 ✔
- c. 2001
- d. 780

Your answer is correct.

The correct answer is:
220

A stock analyst compares the relationship between stock prices and earnings per share to help him select a stock for investment. What type of the description is?

- ○ a. Retrospective study
- ○ b. Experiment
- ● c. Observation study ✔

Your answer is correct.

The correct answer is:
Observation study

The manager at the ABT restaurant wanted to investigate the effect of music on the average revenue per customer. Each night for one month, fast-paced music was played. The following month, slow-paced music was played every night. The average revenue per customer for each month was compared. This method of gathering data is known as

- a. None of the other choices is correct
- b. observation
- c. retrospective
- d. experiments ✔

Your answer is correct.

The correct answer is:
experiments

A method of gathering data while the subjects of interest are in their natural environment, often unaware they are being watched, is known as_____

- a. observation ✔
- b. None of the other choices is correct
- c. retrospective
- d. experiments

Your answer is correct.

The correct answer is:
observation

Question **10**

Correct

Mark 1.00 out of 1.00

Which of the following is a discrete random variable?

○ a.   The average height of Vietnamese adults

○ b.   The price of a product

○ c.   The yield of wheat in a country

◉ d.   The number of eggs that hens lay in a month   ✔️

Your answer is correct.

The correct answer is:
The number of eggs that hens lay in a month

Question **11**

Correct

Mark 1.00 out of 1.00

Choose the true statement.

- ○ a. In statistical inference, the reasoning is from population to a sample .
- ○ b. Population is a part of sample.
- ⦿ c. Population is any finite or infinite collection of individual units or objects. ✔
- ○ d. Population is any subset of the elements of a sample.

The correct answer is: Population is any finite or infinite collection of individual units or objects.

Question **12**

Correct

Mark 1.00 out of 1.00

Those methods involving the collection, presentation, and characterisation of a set of data in order to properly describe the various features of that set of data are called_____

- a. descriptive statistics ✔
- b. the scientific method
- c. sampling
- d. statistical inference

Your answer is correct.

The correct answer is:
descriptive statistics

Question **13**

Correct

Mark 1.00 out of 1.00

A Bank of America employee records the amount of time that customers spend using the ATM machine at her branch. This method of gathering data is known as

- ○ a. None of the other choices is correct
- ⦿ b. observation ✔
- ○ c. experiments
- ○ d. retrospective

Your answer is correct.

The correct answer is:
observation

Question 14

Correct

Mark 1.00 out of 1.00

The fields of statistics deal with _____

- ○ a. All of the others. ✔
- ○ b. design products and processes.
- ○ c. the collection, presentation, analysis of data.
- ○ d. use of data to make decisions, solve problems.

The correct answer is: All of the others.

Parking at a large university has become a very big problem. University administrators are interested in determining the average parking time (e.g. the time it takes a student to find a parking spot) of its students. An administrator inconspicuously followed 210 students and carefully recorded their parking times. Identify the population of interest to the university administration.

- a. The students that park at the university between 9 and 10 AM on Wednesdays
- b. The parking times of the entire set of students that park at the university ✔
- c. The parking times of the 210 students from whom the data were collected
- d. The entire set of faculty, staff, and students that park at the university

Your answer is correct.

The correct answer is:
The parking times of the entire set of students that park at the university

Let X be the number of freshmen in the course MAS291. Identify whether X is discrete or continuous.

- a. None of the other choices is correct
- b. Continuous
- c. Discrete ✔

Your answer is correct.

The correct answer is:
Discrete

Question **17**

Correct

Mark 1.00 out of 1.00

Choose one true statement.

- a. Mechanistic model is not built from our underlying knowledge of the basic physiscal mechanism.
- b. Empirical model uses our engineering and scientific knowledge of the phenomenon. ✔
- c. Mechanistic model is not directly developed from our theoretical understanding of the underlying mechanism.
- d. Emprical model directly developed from our theoretical understanding of the underlying mechanism.

The correct answer is: Empirical model uses our engineering and scientific knowledge of the phenomenon.

Question **18**

Correct

Mark 1.00 out of 1.00

Retrospective study_____

- a. uses current data
- b. None of them
- c. uses future data
- d. uses historical data ✔

Your answer is correct.

The correct answer is:
uses historical data

Question **19**

Correct

Mark 1.00 out of 1.00

"A Gallup poll of 1012 randomly surveyed adults found that 9% of them said cloning of humans should be allowed." In this sentence, 1012 indicates:

- ○ a. Sample. ✔
- ○ b. Census
- ○ c. Population.
- ○ d. None of the others.
- ○ e. Statistic

The correct answer is: Sample.

Question **20**

Correct

Mark 1.00 out of 1.00

The average number of hours spent completing statistics homework for a randomly selected group of statistics students is an example of what type of variable?

- ○ a.   None of the other choices is true
- ○ b.   qualitative variable
- ○ c.   discrete-quantitative variable
- ◉ d.   continuous-quantitative variable   ✔

Your answer is correct.

The correct answer is:
continuous-quantitative variable

Question 21

Correct

Mark 1.00 out of 1.00

A method of gathering data when subjects are exposed to certain treatments and the data of interest is recorded is known as_____

- a.   experiments   ✔

- b.   None of the other choices is correct

- c.   retrospective

- d.   observation

Your answer is correct.

The correct answer is:
experiments

The federal government requires manufacturers to monitor the amount of radiation emitted through the closed door of a microwave oven. One manufacturer measured the radiation emitted by 42 microwave ovens and recorded the values. What is the population?

○ a.   The set of microwave ovens produced by the manufacturer   ✔

○ b.   The set of microwave ovens produced by all manufacturers

○ c.   The subset of 42 microwave ovens whose emission were measured

Your answer is correct.

The correct answer is:
The set of microwave ovens produced by the manufacturer

Question **23**

Correct

Mark 1.00 out of 1.00

Which of the following is a continuous quantitative variable?

- ○ a. The number of employees of an insurance company
- ○ b. The number of gallons of milk sold at the local grocery store yesterday
- ○ c. The colour of a student's eyes
- ● d. The amount of milk produced by a cow in one 24-hour period ✔

Your answer is correct.

The correct answer is:
The amount of milk produced by a cow in one 24-hour period

A stock analyst compares the relationship between stock prices and earnings per share to help him select a stock for investment. What type of the description is?

- a. Observation study ✔
- b. Retrospective study
- c. Experiment

Your answer is correct.

The correct answer is:
Observation study

Question 25

Correct

Mark 1.00 out of 1.00

An employee at the local ice cream parlour asks three customers if they like chocolate ice cream. What is the population?

- a. all customers ✔
- b. all men customers
- c. three selected customers
- d. all women customers

Your answer is correct.

The correct answer is:
all customers

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