

## 9.3.2 Ethics and Bias in Data Quiz

### Question 1

What principle prevents the disclosure of information to unauthorized people, resources, and processes?



confidentiality

integrity

availability

nonrepudiation

accounting

### Question 2

What type of cybersecurity laws protect you from an organization that might want to share your sensitive data?



confidentiality

authentication

nonrepudiation

integrity

privacy

Privacy laws control appropriate use of data and access to data.

### Question 3

Which two methods help to ensure data integrity? (Choose two.)



hashing

authorization



data consistency checks

availability

privacy

repudiation

### Question 4

What type of bias is being applied when the interpretation of data from a study is done in a way that confirms the original beliefs of the analyst?

selection



confirmation

interpretation

predictive

## Question 5

What statement describes the occurrence of a selection bias in an analysis of data?

It can occur when historical data is included within the parameters of the analysis.

It can occur when there is a misinterpretation of either the question or what the data is telling you.



It can occur when the data used is not representative of the overall population that is being investigated.

It can occur if a prediction for one population does not hold true for another population under different circumstances.

## Question 6

What impact might outliers have on an analysis?



The results might be distorted or overly biased.

They can cause the conclusions drawn to be skewed to support the original hypothesis.

They will result in incomplete or non-representative data sets.

They cause the average and mean values to be more accurate.

## Question 7

Colleagues suggest that you should record your expected results before beginning the analysis and avoid selecting only data and methods that support your assumptions. Why are the two suggestions important?

They ensure that historical data is not used.

They help to limit problem outliers.



They help to avoid bias in the analysis.

They ensure that datasets are complete and represent the population being analyzed.

## Question 8

Which two functions help to ensure the confidentiality of personal data? (Choose two.)

hashing



data encryption

file permissions

version control



multi-factor authentication

## Question 9

A corporation is vigilant about maintaining equipment, creating backups, and keeping operating systems and software up to date. Which component of the CIA triad do these measures support?

Confidentiality



Availability

Accountability

Integrity

## Question 10

A person searches the internet for accessories for a newly purchased puppy. Suddenly this person begins receiving multiple promotional emails from many different pet stores. What feature of the CIA triad has been abused?

Accountability

Integrity

Confidentiality



Availability

Confidentiality ensures the privacy of data by restricting access through authentication and encryption. Integrity assures that the information is accurate and trustworthy. Availability ensures that the information is accessible to authorized people. Accountability is not a component of the CIA triad.