

1.What has enabled the recent growth of data science compared to data science in the past?

1 / 1 point

- ☐ Data science is no longer relevant because we have too much data.
- ☐ The software is now more expensive, and data is limited.
- ☐ We now have a lack of data and fewer algorithms.
- ☒ The abundance of data, availability of algorithms, and affordable, accessible tools for storing and analyzing data are highlighted.

✓Correct

Correct! The emphasis is on the abundance of data, the availability of algorithms, and cheaper and more accessible tools for data storage and analysis today.

2.In the “Many Paths to Data Science” video, what did the speaker initially want to be before finding data science more interesting?

1 / 1 point

- ☐ A lawyer
- ☐ An astronaut
- ☐ A small business owner
- ☒ A singer

✓Correct

Correct! The speaker initially wanted to be in business before finding data science a lot more interesting.

3.Which statement is true about the lack of readily available talent in data science?

1 / 1 point

- ☒ Millions of jobs will remain vacant
- ☐ Employers will hire anyone regardless of their qualifications.
- ☐ Companies will no longer want to make data-driven business decisions.
- ☐ Universities will stop teaching about data science.

✓Correct

Correct! The article “The Sexiest Job in the 21st Century” explains that millions of jobs will remain vacant due to the lack of qualified candidates.

4.Which of the following is an important skill for becoming a data scientist?

1 / 1 point

- ☐ Know a lot about front-end web development
- ☐ Economic skills
- ☐ Experience leading a team
- ☒ Be able to tell good stories

✓Correct

Correct! Storytelling is an important skill for a data scientist.

5.What is one of the key roles digital transformation plays in organizations?

1 / 1 point

- ☐ Creating traditional business processes
- ☐ Reducing the need for Chief Information Officers
- ☒ Transforming how the organization operates
- ☐ Maintaining the existing organizational culture

✓Correct

Correct! Digital transformation fundamentally changes how organizations operate, as mentioned in the video.

6.Which is an example of cloud computing?

1 / 1 point

- ☐ Sending a text message
- ☐ Taking a digital photograph
- ☐ Creating new business processes
- ☒ Employees using online business applications to do their work

✓Correct

Correct! Digital transformation fundamentally changes how organizations operate, as mentioned in the video.

7. Why have data science and business analytics gained significant importance in recent years?

1 / 1 point

- ☒ Because of the emergence of new tools and the abundance of data.
- ☐ Because of advancements in statistics
- ☐ Due to the availability of traditional data analysis techniques.
- ☐ They require a Master of Business Administration (MBA) degree.

✓ Correct

Correct! The abundance of data is a primary reason why data science and business analytics have gained significant importance in recent years.

8. Which of the following software provides distributed storage and processing of big data?

1 / 1 point

- ☐ Salesforce
- ☐ Python
- ☐ Photoshop
- ☒ Hadoop

✓ Correct

Correct! Hadoop is a collection of tools that provides distributed storage and processing of big data.

9. Which statement about the relationship between data science and artificial intelligence (AI) is true?

1 / 1 point

- ☐ They are the same thing.
- ☐ Data science is a subset of artificial intelligence
- ☐ Artificial intelligence is a subset of data science
- ☒ Data Science can use many of the AI techniques to derive insight from data

✓ Correct

Correct! Data Science can use many AI techniques to derive insight from data.

10. Fill in the blank. The _____ of a data mining exercise largely depends on the quality of the data.

1 / 1 point

- ☐ Results
- ☐ Difficulty
- ☒ Success
- ☐ Input

✓ Correct

Correct! According to the Data Mining reading, the success of a data mining exercise largely depends on the quality of the data.

11. What is the primary focus of generative AI models?

1 / 1 point

- ☐ Create a story about the data for the stakeholders
- ☒ Create new instances that replicate the underlying distribution of data
- ☐ To determine business needs
- ☐ To replace a need for curiosity

✓ Correct

Correct! Generative AI focuses on replicating human creations by creating new data.

12. Which of the following is an example of a recommendation engine?

1 / 1 point

- ☐ Google Chrome browser
- ☐ Spreadsheets
- ☐ Text messaging apps
- ☒ Software Facebook uses to deliver advertisements

✓ Correct

Correct! Facebook uses a recommendation engine to deliver its advertisements based on many factors, such as your demographics, your viewing history, and previous shopping habits.