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Next item →

1. Which of the following statements best describes what data science is about? 1 / 1 point

- ☐ Data Science was defined in the 80s and 90s and is only about exploring questions and finding answers.
- ☒ Data Science is the process of using data to understand different things, validate hypotheses, and uncover insights and trends hiding behind data.
- ☐ Data Science is only about using algorithms to analyze large datasets.
- ☐ Data Science is just about studying data, similar to how biological sciences is about studying biology.

✔ Correct  
Correct! This option encapsulates the essence of data science, as discussed in the text, covering understanding, validating hypotheses, and finding insights in data.

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

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

✔ 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. According to the video 'Advice for New Data Scientists,' which quality is an absolute must for aspiring data scientists? 1 / 1 point

- ☐ Comfort with analytics platforms
- ☐ Being Argumentative
- ☐ Ability to tell a great story
- ☒ Curiosity

✔ Correct  
Correct! The speaker emphasizes the crucial role of curiosity for a data scientist.

5. In the video "How Big Data is Driving Digital Transformation," whose support is crucial for successful digital transformation? 1 / 1 point

- ☐ Lead developers
- ☒ Chief Executive Officer and others
- ☐ Marketing department
- ☐ External stakeholders

✔ Correct  
Correct! As mentioned in the video, the support of top-level executives like the Chief Executive Officer is vital for the success of digital transformation.

6. Which is an example of cloud computing? 1 / 1 point

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

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

7. Which of these are the common elements associated with Big Data? 1 / 1 point

- ☐ Efficiency, Effectiveness, Emotion, Engagement, Economics
- ☐ Frequency, Footage, Features, Factuality, Fun
- ☐ Speed, Size, Sameness, Security, Satisfaction
- ☒ Velocity, Volume, Variety, Veracity, Value

✔ Correct  
Correct! The video discusses these common elements associated with Big Data.

8. Which of the following software provides distributed storage and processing of big data? 1 / 1 point

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

✔ 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

- ☐ Data science is a subset of artificial intelligence
- ☐ Artificial intelligence is a subset of data science
- ☐ They are the same thing.
- ☒ 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 success of a data mining exercise largely depends on the quality of \_\_\_\_\_.? 1 / 1 point

- ☐ The subject matter
- ☐ The project
- ☒ The data
- ☐ The data scientist

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

11. What do you call data sets that are massive, quickly built, and are often characterized by five V's: velocity, volume, variety, veracity, and value? 1 / 1 point

- ☒ Big data
- ☐ Data mining
- ☐ Data processing
- ☐ Data analysis

✔ Correct  
Correct! Big data is the term used to describe data sets that are massive, quickly built, and varied, defying traditional analysis methods.

12. Which of the following is an example of a data science application? 1 / 1 point

- ☐ Data storage
- ☐ Mimic the human brain
- ☐ Spreadsheets
- ☒ Recommendation engine

✔ Correct  
Correct! Neural networks aim to mimic the functioning of the human brain.