Question 1
How can data science systems with predictive analytics benefit healthcare professionals? 1 / 1 point
They recommend personalized treatment plans for patients.
They offer extra information to patients.
They prioritize specific diagnostic tests.
They store a physician's individual knowledge.

Correct
Correct! Data science systems with predictive analytics can recommend appropriate tests, suitable trials, and suggested treatments tailored to individual patients, thus providing personalized treatment plans for healthcare professionals.

Question 2
Which of these individuals coined the term "data science"? 0 / 1 point
Andrew Gelman and John Doe
DJ Patil and Marjorie Lee Brown
Ada Lovelace and John Doe
Andrew Gelman and DJ Patil

Incorrect
Incorrect. Please review "The Many Paths to Data Science" video.

Question 3
Why do experts estimate that millions of jobs in data science might remain vacant? 1 / 1 point
There is a lack of readily available talent.
People prefer working in the service industry.
Not enough schools are teaching statistics.
A job in data science doesn't pay well.

Correct
Correct. Experts estimate that millions of jobs in data science might remain vacant because there is a lack of readily available talent.

Question 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
Be able to tell good stories
Economic skills
Experience leading a team

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

Question 5
In the video "How Big Data is Driving Digital Transformation," whose support is crucial for successful digital transformation? 1 / 1 point
External stakeholders
Chief Executive Officer and others
Lead developers
Marketing department

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.

Question 6
Which is an example of cloud computing? 1 / 1 point
Creating new business processes
Sending a text message
Employees using online business applications to do their work
Taking a digital photograph

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

Question 7
What type of data is not organized in a predefined way, like email? 1 / 1 point
Velocity data
Structured data
Unstructured data
Variety data

Correct
Correct! Unstructured data, like Tweets, is not organized in a predefined way.

Question 8
Which of the following software provides distributed storage and processing of big data? 1 / 1 point
Photoshop
Salesforce
Hadoop
Python

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

Question 9
Which term can be described as "a collection of small computing units that take inspiration from the biology of the human brain and take incoming data to learn to make decisions over time." 1 / 1 point
Nervous system
Data science
Hard drive
Artificial neural networks

Correct
Correct! The statement "A collection of small computing units that take inspiration from the biology of the human brain and take incoming data to learn to make decisions over time" describes a neural network.

Question 10
Fill in the blank. The success of a data mining exercise largely depends on the quality of _____? 1 / 1 point
The data
The data scientist
The subject matter
The project

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.

Question 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 replace a need for curiosity
To determine business needs

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

Question 12
Which of the following is an example of a data science application? 1 / 1 point
Recommendation engine
Mimic the human brain
Spreadsheets
Data storage

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