1. What key benefit does cloud computing offer users, particularly in contrast to traditional software installations on their local computers?   **1 point**

   ○ Cloud computing requires users to purchase and install their own applications locally.

   ○ Cloud computing eliminates the need for users to store any data locally.

   ⦿ Users can access the latest version of applications without purchasing retail copies.

   ○ Users have more control over their applications in the cloud.

2. What are the primary advantages of using cloud for data scientists?   **1 point**

   ○ The Cloud allows data scientists to store data locally and use advanced computing algorithms.

   ○ The Cloud can only be accessed from laptops, not tablets or phones.

   ⦿ The Cloud enables data scientists to work with large datasets and deploy advanced computing algorithms and tools available centrally.

   ○ The Cloud offers up-to-date tools and libraries for data scientists but restricts access to specific time zones.

3. What are the common characteristics of Big Data, often called the "V's of Big Data"?   **1 point**

   ⦿ Velocity, Volume, Variety, Veracity, and Value

   ○ Volume, Vector, and Verification

   ○ Vision, Velocity, and Visualization

   ○ Variety, Verification, and Value

4. How has the interest in data science and business analytics changed over the last few years, and what is the impact on undergraduate courses in this field?   **1 point**

   ○ Interest in data science has declined, leading to a decrease in enrollment in undergraduate courses.

   ○ Interest in data science has remained constant, with no significant changes in enrollment in related undergraduate courses.

   ⦿ Interest in data science and business analytics has increased, leading to a growing number of students enrolling in related undergraduate courses.

   ○ Interest in data science has shifted primarily to parents rather than students.

5. Which open-source technology provides distributed storage and processing of big data, allowing scalability and support for various data formats?   **1 point**

   ○ Apache Spark

   ⦿ Apache Hadoop

   ○ NoSQL databases

   ○ Apache Hive