Quiz 1 - Data Platforms, Data Stores, and Security

1. Which one of these steps is an intrinsic part of the "Data Processing Layer" of a data platform?   **1 / 1 point**

   - ⦿ Read data in batch or streaming modes from storage and apply transformations
   - ○ Deliver processed data to data consumers
   - ○ Transfer data from data sources to the data platform in streaming, batch, or both modes
   - ○ Transform and merge extracted data, either logically or physically

   ✓ **Correct**
   This task is performed in the "Data Processing Layer".

2. Systems that are used for capturing high-volume transactional data need to be designed for high-speed read, write, and update operations.   **1 / 1 point**

   - ⦿ True
   - ○ False

   ✓ **Correct**
   High-speed read, write, and update operations are essential for systems that need to capture large volumes of transactional data.

3. What is the role of "Network Access Control" systems in the area of network security?   **1 / 1 point**

   - ○ To create silos, or virtual local area networks, within a network so that you can segregate your assets
   - ○ To ensure attackers cannot tap into data while it is in transit
   - ⦿ To ensure endpoint security by allowing only authorized devices to connect to the network
   - ○ To inspect incoming network traffic for intrusion attempts and vulnerabilities

   ✓ **Correct**
   This is achieved with the help of Network Access Control systems.

4. _____ ensures that users access information based on their roles and the privileges assigned to their roles.   **1 / 1 point**

   - ○ Authentication
   - ○ Firewalls
   - ○ Security Monitoring
   - ⦿ Authorization

   ✓ **Correct**
   One of the primary controls for data security is to enable access to data through a system of Authorization. It allows access to information based on a user's role and role-based privileges.

5. Security Monitoring and Intelligence systems:

○ Ensure users access information based on their role and privileges

● Create an audit history for triage and compliance purposes

○ Ensure only authorized devices can connect to a network

○ Create virtual local area networks within a network so that you can segregate your assets

✓ **Correct**
Security Monitoring and Intelligence systems create an audit trail and provide reports and alerts that help enterprises react to security violations in time.