1.2.1 - CIA Triad

Amanda Success (Period 9) (replace with your information)
Monday December 25, 2023
Seat 99 (Grade level 13)
Cyber Capstone

1. What are the three fundamental principles of information security, also known as the CIA Triad?
A. Confidentiality, Integrity, and Authorization
B. Confidentiality, Integrity, and Availability
C. Confidentiality, Integrity, and Access Control
D. Confidentiality, Integrity, and Authentication
___ <- Type answer here

2. Which principle of the CIA Triad ensures that information remains accurate and complete, and hasn't been tampered with or modified in any unauthorized way?
A. Confidentiality
B. Integrity
C. Availability
D. Authentication
___ <- Type answer here

3. What principle of the CIA Triad ensures that authorized users have timely and reliable access to information and systems when needed?
A. Confidentiality
B. Integrity
C. Availability
D. Authorization
___ <- Type answer here

4. What is the purpose of the CIA Triad in information security?
A. To authenticate users accessing the system
B. To provide a framework for developing and implementing security controls
C. To enforce access control policies
D. To monitor network traffic and detect anomalies
___ <- Type answer here

5. What is the term for the application of scientific principles to provide assurance in explaining what has or has not happened on a computer system?
A. Digital encryption
B. Cybersecurity

C. Digital forensics
D. Network security

6. What is the purpose of hashing or running backups/data through a one-way algorithm in digital forensics?
A. To authenticate users
B. To preserve the earliest known state of the data
C. To provide non-repudiation with the evidence
D. To encrypt sensitive information

7. What does the AAA framework stand for in the context of network security?
A. Authentication, Authorization, Accounting
B. Access, Authorization, Authentication
C. Authorization, Authentication, Availability
D. Authentication, Authorization, Auditing

8. Which method of authentication involves verifying the identity of a device, computer, or application to ensure it is authorized to access resources or communicate with other systems?
A. Multi-factor authentication
B. Biometric authentication
C. Credentials-based authentication
D. Token-based authentication