1. Which functions would fall under the category of operational security controls? Select two answers.

- ☑ Responding to an incident alert

  ✓ **Correct**

- ☐ Establishing trust using digital certificates

- ☑ Providing security awareness training

  ✓ **Correct**

- ☐ Exchanging encrypted information

2. A paid subscriber of a news website has access to exclusive content. As a data owner, what should the subscriber be authorized to do with their account? Select three answers.

- ☐ Edit articles on the website

- ☑ Update their payment details

  ✓ **Correct**

- ☑ Stop their subscription

  ✓ **Correct**

- ☑ Review their username and password

  ✓ **Correct**

3. You send an email to a friend. The service provider of your inbox encrypts all messages that you send. What happens to the information in your email when it's encrypted?

- ◯ It's converted from ciphertext to plaintext.

- ◉ It's converted from plaintext to ciphertext.

- ◯ It's converted from a hash value to ciphertext.

- ◯ It's converted from Caesar's cipher to plaintext.

  ✓ **Correct**

4. A security analyst is investigating a critical system file that may have been tampered with. How might the analyst verify the integrity of the system file?

- ◯ By opening the system file in word processing application and checking its version history.

- ◯ By decrypting the system files secret key using Advanced Encryption Standard (AES).

- ◉ By comparing the system files hash value to a known, trusted hash value.

- ◯ By brute forcing the system file using a rainbow table.

  ✓ **Correct**

5. Which security controls are used in public key infrastructure (PKI)? Select three answers.

- ☑ Symmetric encryption

  ✓ **Correct**

- ☑ Digital certificates

  ✓ **Correct**

- ☐ Multi-factor authentication

- ☑ Asymmetric encryption

  ✓ **Correct**

6. What factors do authentication systems use to verify a user's identity? Select three answers.   **1 / 1 point**

- ☑ Characteristic

  ✓ **Correct**

- ☑ Ownership

  ✓ **Correct**

- ☑ Knowledge

  ✓ **Correct**

- ☐ Accounting

7. What is a key advantage of multi-factor authentication compared to single sign-on?   **1 / 1 point**

- ○ It is faster when authenticating users.
- ○ It can grant access to multiple company resources at once.
- ◉ It requires more than one form of identification before granting access to a system.
- ○ It streamlines the authentication process.

  ✓ **Correct**

8. A business has one person who receives money from customers at the register. At the end of the day, another person counts that money that was received against the items sold and deposits it. Which security principles are being implemented into business operations? Select two answers.   **1 / 1 point**

- ☐ Multi-factor authentication
- ☐ Single sign-on
- ☑ Separation of duties

  ✓ **Correct**

- ☑ Least privilege

  ✓ **Correct**

9. What are common authorization tools that are designed with the principle of least privilege and separation of duties in mind? Select three answers.   **1 / 1 point**

- ☑ API Tokens

  ✓ **Correct**

- ☑ Basic auth

  ✓ **Correct**

- ☐ SHA256
- ☑ OAuth

  ✓ **Correct**

10. What is the practice of monitoring the access logs of a system?   **1 / 1 point**

- ◉ Accounting
- ○ Auditing
- ○ Authorization
- ○ Authentication

  ✓ **Correct**