1. What is CI/CD?   1 / 1 point

   ○ Continuous Innovation and Continuous Development

   ○ Continuous Interaction and Continuous Delivery

   ○ Continuous Integration and Continuous Deployment

   ◉ Continuous Integration and Continuous Development or Deployment

   ✓ **Correct**
   Correct! CI/CD refers to the combination of continuous integration and continuous development or
   continuous deployment practices. These practices are essential in modern software development
   methodologies, such as Agile and DevOps, to deliver high-quality software faster.

2. What is one way AI enhances online security?   1 / 1 point

   ○ Automating threat detection by combining computer and human intelligence.

   ○ Analyzing network traffic to assess user behaviors.

   ○ Facilitating the establishment of typical user behaviors within an organization.

   ◉ Identifying and preventing potentially malicious content from reaching you.

   ✓ **Correct**
   Correct! AI enhances online security by identifying and preventing potentially malicious content from
   reaching the user. This is accomplished through the use of machine learning algorithms that analyze
   patterns and characteristics of known malicious content. By continuously learning and adapting, AI
   systems can detect and block suspicious or harmful activities, such as malware, phishing attempts, or
   spam.

3. Which of the following security risks can be associated with AI-generated code?

   ○ Vulnerabilities in third-party libraries

   ◉ SQL injection, cross-site scripting (XSS), or similar injection attacks

   ○ Model poisoning and adversarial attacks

   ○ Denial-of-Service (DoS) attacks and phishing attempts

   1 / 1 point

   ✓ **Correct**
   Correct! AI-generated code can be vulnerable to these types of attacks if it does not have proper input validation and sanitization checks. To prevent these types of attacks, it is important to ensure that any user-generated input or external data is properly validated and sanitized before being used in code execution or database queries.

4. Which techniques are used in AI to improve software testing?

   ○ Data synthesis and automated test input generation

   ○ Natural language processing and anomaly detection

   ○ Machine learning and intelligent scheduling algorithms

   ◉ All of the above

   1 / 1 point

   ✓ **Correct**
   Correct! All these techniques are utilized in AI to improve software testing, providing a comprehensive approach to ensure the quality and reliability of the software.

5. What is one of the techniques used by AI-powered code review tools to enhance analysis accuracy?

   ○ Natural Language Processing (NLP)

   ◉ Static analysis

   ○ Automated log analysis

   ○ Predictive debugging

   1 / 1 point

   ✓ **Correct**
   Correct! Static analysis is specifically designed to analyze the code itself, making it an effective approach for detecting issues in software development.

6. Which of the following is NOT mentioned as a benefit of integrating AI-powered features into mobile apps?

   ○ Elevating the app to new heights

   ○ Helping people capture and interact with their memories through photos

   ◉ Facilitating open discussions and diverse ideas

   ○ Offering a unique and personalized experience

   1 / 1 point

   ✓ **Correct**
   Correct! It is the only option that does not mention the benefit of integrating AI-powered features into mobile apps.

7. AI leverages _____ to stimulate attacks and identify runtime vulnerabilities.   1 / 1 point

○ Automated code reviews

○ Intelligent threat modeling

◉ Dynamic Application Security Testing (DAST)

○ Static Application Security Testing (SAST)

> ✓ **Correct**
> Correct! AI leverages DAST to simulate attacks and identify runtime vulnerabilities.

8. What is the primary role of AI in software code review?   1 / 1 point

◉ Enhancing analysis accuracy

○ Ignoring coding style violations

○ Increasing security flaws

○ Manual execution of code

> ✓ **Correct**
> Correct! AI in software code review aims to enhance analysis accuracy using machine learning algorithms.

9. The AI-based monitoring tools in a CI/CD pipeline signifies in _____.   1 / 1 point

○ Enhancing Software defects

◉ Proactively detecting abnormal behavior and security threats

○ Predicting deployment risks

○ Analyzing user feedback

> ✓ **Correct**
> Correct! AI-based monitoring tools instantly detect abnormal behavior and security threats, enabling proactive issue resolution and ensuring system reliability.

10. _____ is one of the roles of Symantec Endpoint Security in AI-powered cybersecurity.   1 / 1 point

◉ Machine-learning exploits and malware prevention

○ Analyzing HTTP requests and response

○ Providing remediations for security flaws

○ Identifying vulnerabilities

> ✓ **Correct**
> Correct! Symantec Endpoint Security is an AI-powered tool that features machine-learning exploits and malware prevention.