**Application Testing Graded Assessment** ← Back Graded Quiz • 1h 10m • 34 total points 1. True or False. A security architect's job is to make sure that security considerations are balanced against other 1 point design aspects such as usability, resilience and cost. True 2. Which of these is an aspect of an Enterprise Architecture? 1 point Maps the main components of a problem space and solution at a very high level. Gives the technology perspectives in detail O Describes how specific products or technologies are used O Shows the internal data and use of reusable or off-the-shelf components 3. Which of these is an aspect of a Solution Architecture? 1 point Shows the internal data and use of reusable or off-the-shelf components O Does not describe the internals of the main components or how they will be implemented Maps the main components of a problem space and solution at a very high level Onsiders the needs of the entire organization 4. Which three (3) of these are features of Architecture Building Blocks (ABBs)? (Select 3) 1 point ☐ Specifies the technical components to implement a function ✓ Guides the development of a Solution Architecture Captures and defines requirements such as function, data, and application Product and vendor neutral 5. Which three (3) of these are Architecture Building Blocks (ABBs)? (Select 3) 1 point Detect and Respond ✓ Identity and Access Management ✓ Infrastructure and Endpoint Security 6. Which three (3) of these are Solution Building Blocks (SBBs)? (Select 3) 1 point Privilege Access Manager ✓ Hardware Token Application Security ✓ Web Application Firewall (WAF) 7. The diagram below shows which level of architecture? 1 point Security Domains Security Capabilities Strategy, Architecture Security Policy Security Awareness Governance, Risk and Compliance Risk and Compliance Audit and Regulatory and Governance and Processes and Education Secure Development Lifecycle Requirements Managem Security Testing and Risk Management Data Access, Integrity Key and Certificate Data Lifecycle Data Loss Encryption Management Prevention (DLP) & Monitoring Lifecycle Management Management Management and Endpoint Protection Security Management Vulnerability Lifecycle Threat Intelligence Threat Investigation Security Testing Threat Detection and Response and Response Management and Hunting **Business Continuity** cident, Problem and Change Asset and Configuration Architecture and Performance, Capacity and (IPC) Management Service Management and Resilience Operations Management Management O High Level Security Architecture Enterprise Security Architecture O Domain-specific Enterprise Security Architecture O Solution Architecture 8. Solution architectures often contain diagrams like the one below. What does this diagram show? 1 point Internet Insurance Health Care Providers Providers Web Server Application Server Registration Cloud Solution architecture overview Functional components and data flow External context and boundry diagram Enterprise architecture 9. Solution architectures often contain diagrams like the one below. What does this diagram show? 1 point Service Desk IT Operations · Authenticate Customer and Agent Order new phone · Problem, Change and Incident Management ·Order new phone Payment failed Monitor Performance and Capacity Track phone delivery Cancel order Perform Patching and Updates Cancel order Mobile Phone / Cell Phone Retail System Register new contract Make Payment Register account Cancel Contract Cancel Payment Order new phone Request New SIM · Reverse Charge Track phone delivery · Block Phone Payment Provider Mobile Phone Network Customers Functional components and data flow Enterprise architecture Architecture overview External context and boundary diagram 10. What is lacking in a security architecture pattern that prevents it from being used as a finished design? 1 point O Proper level of abstraction The context of the project at hand O Vendor selections O Proper formatting 11. What are the possible consequences if a bug in your application becomes known? 1 point O It is embarrassing to your company Financial losses via lawsuits and fines can be very significant O Government agencies can impose fines and other sanctions against your company All of the above 12. What was the ultimate consequence to Target Stores in the United States from their 2013 data breach in which 1 point over 100M records were stolen? Costs and fines estimated at \$1B. Ocsts of \$10M and reputational damage only. Oriminal negligence charges were filed 3 Target executives, 1 of whom received a prison sentence Ocsts and fines that forced the company into bankruptcy 13. Select the two (2) top vulnerabilities found in common security products. (Select 2) 1 point Cross-site request forgery Use of hard-coded credentials Cross-site scripting ☐ SQL Injection 14. True or False. If you can isolate your product from the Internet, it is safe from being hacked. 1 point O True False 15. Which three (3) things can Cross-site scripting be used for? (Select 3) 1 point ☐ Break encryption ✓ Harvest credentials Take over sessions Steal cookies 16. True or False. Commonly a Reflect XSS attack is sent as part of an Email or a malicious link and affects only the the 1 point user who receives the Email or link. O False 17. Cross-site scripting attacks can be minimized by using HTML and URL Encoding. How would a browser display this 1 point string?: <b&gt;Password&lt;/b&gt; <b&gt;Password&lt;/b&gt; <b>Password</b> <<Password>> Password 18. Which three (3) statements about whitelisting user input are true? (Select 3) 1 point Single quotes should never be allowed as user input ✓ Whenever possible, input should be whitelisted to alphanumeric values to prevent XSS Special characters should only be allowed on an exception basis Whitelisting reduces the attack surface to a known quantity 19. Which two (2) statements are considered good practice for avoiding XSS attacks (Select 2) 1 point Use blacklists and client-side validation ✓ Encode all data output as part of HTML and JavaScript Use strict whitelists on accepting input Develop you own validation or encoding functionality that is customized for your application 20. How would you classify a hactivist group who thinks that your company's stance on climate change threatens the 1 point survival of the planet? O A vector A vulnerability O A risk A threat 21. Which software development lifecycle is characterized by short bursts of analysis, design, coding and testing 1 point during a series of 1 to 4 week sprints? Spiral Agile and Scrum ○ Waterfall O Iterative 22. Which software development lifecycle is characterized by a series of cycles and an emphasis on security? 1 point Spiral Agile and Scrum ○ Waterfall O Iterative 23. Which form of penetration testing allows the testers no knowledge of the systems they are trying to penetrate in 1 point advance of their attack to simulate an external attack by hackers with no knowledge of an organizations systems? Black Box Testing Red Box Testing O White Box testing Gray Box Testing 24. Which application testing method requires a URL to the application, is quick and cheap but also produces the 1 point most false-positive results? DAST: Dynamic Security Application Testing O PAST: Passive Application Security Testing SAST: Static Application Security Testing IAST Interactive Application Security Testing 25. Which type of application attack would include buffer overflow, cross-site scripting, and SQL injection? 1 point Authorization O Configuration management Input validation Authentication 26. Which type of application attack would include unauthorized access to configuration stores, unauthorized access 1 point to administration interfaces and over-privileged process and service accounts? Auditing and logging Configuration management Exception management Authentication 27. Which one of the OWASP Top 10 Application Security Risks would occur when authentication and session 1 point management functions are implemented incorrectly allowing attackers to compromise passwords, keys or session tokens. O Sensitive data exposure XML external entities (XXE) Broken authentication O Broken access control 28. Which one of the OWASP Top 10 Application Security Risks would occur when restrictions on what a user is 1 point allowed to do is not properly enforced? O Security misconfiguration O Cross-site scripting Insecure deserialization Broken access control 29. Which of these threat modeling methodologies is integrated seamlessly into an Agile development methodology? 1 point ○ TRIKE STRIDE VAST O P.A.S.T.A. 30. Security standards do not have the force of law but security regulations do. Which one of these is a security 1 point regulation? O ISO 27034/24772 HIPAA NIST 800-53 O PCI-DSS 31. Which phase of DevSecOps would contain the activities Secure application code, Secure infrastructure 1 point configuration, and OSS/COTS validation? O Plan Ode & build Operate & monitor O Test Release, deploy & decommission 32. Which phase of DevSecOps would contain the activities Detect & Visualize, Respond, and Recover? 1 point Operate & monitor O Code & build Release, deploy & decommission O Plan O Test 33. The Deploy step in the DevSecOps Release, Deploy & Decommission phase contains which of these activities? 1 point O Versioning of infrastructure IAM controles to regulate authorization O Data backup cleansing Creation of Immutable images 34. The Respond step in the DevSecOps Operate & Monitor phase contains which of these activities? 1 point Root Cause Analysis O Chaos engineering Inventory Virtual Patching

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