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SAMPLE

Questions

- 1. What document establishes security categories for both information and information systems?**
 - A. FIPS 199**
 - B. NIST 800-30**
 - C. FIPS 200**
 - D. CNSS Instruction 1253**
- 2. What does the acronym "NIST" stand for?**
 - A. National Information Security Technology**
 - B. National Institute of Standards and Technology**
 - C. National Information Systems Trust**
 - D. National Institute for Strategic Technology**
- 3. Who oversees the coordination of infosec reporting in an organization?**
 - A. Information Owner**
 - B. CIO**
 - C. Risk Executive**
 - D. Information System Security Engineer**
- 4. In the context of RMF, what does a high impact level imply?**
 - A. The information system has minimal security requirements**
 - B. The potential damage of a security breach is significant**
 - C. The system is at a lower regulatory standard**
 - D. The system does not require continuous monitoring**
- 5. What essential information should be included in the System Security Plan (SSP)?**
 - A. Only the recent security incidents**
 - B. The overall budget for cybersecurity measures**
 - C. Security requirements, controls in place, and the overall security posture of the system**
 - D. Details about personnel training programs**

- 6. What is the highest potential level of impact defined in security categorization?**
- A. Low**
 - B. Moderate**
 - C. Critical**
 - D. High**
- 7. What document defines the Risk Management Framework (RMF) Process?**
- A. NIST 800-37**
 - B. NIST 800-39**
 - C. NIST 800-53**
 - D. NIST 800-60**
- 8. Why is addressing vulnerabilities essential in cybersecurity?**
- A. To ensure compliance with industry regulations**
 - B. To exploit them for testing purposes**
 - C. To reduce the threat of unauthorized access and potential harm**
 - D. To improve system performance**
- 9. What is the purpose of a risk acceptance decision?**
- A. To formally reject all identified risks**
 - B. To inform stakeholders of all identified risks**
 - C. To formally accept the identified risks associated with operating a system**
 - D. To eliminate all risks before system operation**
- 10. Identifying residual risk is essential for which of the following reasons?**
- A. It indicates that security measures are unnecessary**
 - B. It helps in recognizing the effectiveness of security controls**
 - C. It provides a complete elimination of risk**
 - D. It measures the speed of system recovery**

Answers

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1. A
2. B
3. B
4. B
5. C
6. D
7. A
8. C
9. C
10. B

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Explanations

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1. What document establishes security categories for both information and information systems?

- A. FIPS 199**
- B. NIST 800-30**
- C. FIPS 200**
- D. CNSS Instruction 1253**

The correct document that establishes security categories for both information and information systems is FIPS 199. This Federal Information Processing Standard specifically outlines the guidelines for the categorization of federal information and information systems based on the impact that a loss of confidentiality, integrity, or availability would have on organizational operations, organizational assets, or individuals. By designating information and systems into different security categories, FIPS 199 provides a systematic approach that helps organizations determine the security controls they must implement to protect their assets adequately. The document uses predefined impact levels—low, moderate, and high—to classify information, facilitating a consistent method for gauging risk and requirements across various federal entities. Other documents mentioned have different focal points; for instance, NIST 800-30 is primarily concerned with risk assessment and does not directly establish security categories, while FIPS 200 focuses on minimum security requirements for information systems but does not categorize the security of both information and systems. CNSS Instruction 1253 is centered around national security systems and does not address categorization in the same comprehensive manner.

2. What does the acronym "NIST" stand for?

- A. National Information Security Technology**
- B. National Institute of Standards and Technology**
- C. National Information Systems Trust**
- D. National Institute for Strategic Technology**

The acronym "NIST" stands for the National Institute of Standards and Technology. This organization, which is part of the U.S. Department of Commerce, plays a crucial role in developing standards, guidelines, and associated methods and techniques for information security. NIST is well-known for its contributions to cybersecurity frameworks and risk management practices, which are essential for organizations seeking to protect their information systems and manage risks effectively. The existence of NIST and its comprehensive guidelines such as the NIST Cybersecurity Framework highlights its importance in establishing a baseline for security practices across various industries and governmental departments. This framework assists organizations in understanding risks and developing an appropriate security posture. In contrast, the other options do not reflect the actual title or purpose of the NIST organization. They either misrepresent its focus or entirely create fictitious entities. This underscores the significance of understanding proper terminology in the context of information security and standards.

3. Who oversees the coordination of infosec reporting in an organization?

- A. Information Owner**
- B. CIO**
- C. Risk Executive**
- D. Information System Security Engineer**

The Chief Information Officer (CIO) typically has the overall responsibility for managing and protecting an organization's information assets, which includes overseeing the coordination of information security reporting. In this role, the CIO ensures that there are proper protocols in place for reporting security incidents, vulnerabilities, and compliance with policies and regulations. This position involves strategic oversight and aligns the organization's information security program with its business objectives. By managing infosec reporting, the CIO plays a crucial role in communicating security risks and the overall security posture to senior management and stakeholders, ensuring that appropriate resources are allocated for effective information security management. This coordination is essential for maintaining robust security practices across the organization and responding to evolving threats and regulatory requirements.

4. In the context of RMF, what does a high impact level imply?

- A. The information system has minimal security requirements**
- B. The potential damage of a security breach is significant**
- C. The system is at a lower regulatory standard**
- D. The system does not require continuous monitoring**

In the context of Risk Management Framework (RMF), a high impact level indicates that a security breach could cause significant damage to the organization, individuals, or national security. This impact can manifest in various ways, including financial loss, legal ramifications, damage to reputation, or adverse effects on operational capabilities. When an information system is classified at a high impact level, it typically means that the confidentiality, integrity, and availability of its data are critical. Therefore, heightened security measures and controls are required to mitigate the risks associated with vulnerabilities. This classification guides organizations in implementing the necessary safeguards to protect sensitive information and maintain trust with stakeholders. Understanding the implications of a high impact level is crucial for professionals involved in authorization and security assessments, as it shapes the decisions regarding the prioritization of security resources, implementation of protections, and overall risk management strategy.

5. What essential information should be included in the System Security Plan (SSP)?
- A. Only the recent security incidents
 - B. The overall budget for cybersecurity measures
 - C. Security requirements, controls in place, and the overall security posture of the system**
 - D. Details about personnel training programs

The System Security Plan (SSP) is a crucial document that outlines the security requirements, the specific controls that have been implemented to protect the system, and the overall security posture of the system. This comprehensive view serves as a foundational element for managing information security risks and ensuring compliance with regulatory and organizational security standards. Including security requirements in the SSP is important as it establishes the baseline for security expectations that must be met. Detailing the controls in place allows for clarity on how those requirements are being addressed and what measures are taken to mitigate risks. It also helps in assessing the effectiveness of the security architecture and guides future improvements. Additionally, outlining the overall security posture helps stakeholders, including management and external auditors, understand how secure the system is at a glance and where vulnerabilities might still exist. This information is critical for continuous monitoring and evaluation of risk management strategies. In contrast, focusing solely on recent security incidents, the overall budget for cybersecurity measures, or details about personnel training programs does not provide the complete picture of how security is managed within the system. These aspects may be relevant in specific contexts but do not encompass the necessary scope and depth of the information expected in a comprehensive SSP.

6. What is the highest potential level of impact defined in security categorization?
- A. Low
 - B. Moderate
 - C. Critical
 - D. High**

In the context of security categorization, the highest potential level of impact is defined as "High." This classification indicates that if the confidentiality, integrity, or availability of the information or system is compromised, it could have severe negative consequences, such as significant harm to individuals, organizations, or national interests. The categorization process is guided by standards such as FIPS 199 and NIST SP 800-60, which outline the categories of impact: Low, Moderate, and High. Each level corresponds to increasing severity in terms of potential damage and repercussions. A "High" impact reflects profound risk, necessitating rigorous security controls and measures to protect sensitive information effectively. Understanding this classification helps organizations prioritize their security efforts and allocate resources appropriately to mitigate risks and enhance their overall security posture. The distinction between High and the other impact levels underscores the urgency and complexity involved in protecting high-impact systems and data.

7. What document defines the Risk Management Framework (RMF) Process?

- A. NIST 800-37**
- B. NIST 800-39**
- C. NIST 800-53**
- D. NIST 800-60**

The document that defines the Risk Management Framework (RMF) Process is NIST 800-37. This publication provides a comprehensive approach for managing organizational risk and is fundamental to implementing the RMF in accordance with federal standards. It outlines a structured process that integrates security, privacy, and risk management into the system development lifecycle. The RMF, as described in NIST 800-37, emphasizes continuous monitoring, the importance of categorizing information systems based on risk, selecting and implementing appropriate security controls, and assessing the effectiveness of those controls. This guidance is crucial for organizations seeking to establish a robust risk management strategy. Understanding NIST 800-37 is essential for professionals involved in cybersecurity, particularly those focused on establishing, maintaining, and improving the security posture of information systems within an organization.

8. Why is addressing vulnerabilities essential in cybersecurity?

- A. To ensure compliance with industry regulations**
- B. To exploit them for testing purposes**
- C. To reduce the threat of unauthorized access and potential harm**
- D. To improve system performance**

Addressing vulnerabilities is essential in cybersecurity because it directly reduces the threat of unauthorized access and potential harm to systems and data. When organizations actively identify and remediate vulnerabilities, they strengthen their security posture against attacks that could compromise their sensitive information, disrupt operations, or damage their reputation. By patching weaknesses and enforcing robust security measures, the likelihood of successful exploitations by malicious actors decreases significantly, thus protecting both the integrity and confidentiality of data within the organization. The focus on reducing potential harm is crucial because even a single vulnerability can lead to extensive breaches or losses. Being proactive about identifying and mitigating these vulnerabilities allows organizations to safeguard their assets, ensuring that they are able to function securely in an increasingly hostile digital environment.

9. What is the purpose of a risk acceptance decision?

- A. To formally reject all identified risks**
- B. To inform stakeholders of all identified risks**
- C. To formally accept the identified risks associated with operating a system**
- D. To eliminate all risks before system operation**

The purpose of a risk acceptance decision is to formally accept the identified risks associated with operating a system. In the context of risk management, it is crucial to recognize that not all risks can be eliminated, nor is it always feasible or desirable to do so. Operating advanced systems often involves inheriting certain risks, which may be deemed acceptable based on the organization's risk tolerance levels and business objectives. When a risk is accepted, it indicates a conscious decision to continue with the operation despite the known risks, usually because the potential benefits outweigh the drawbacks, or because the consequences of the risks are manageable within the organization's capabilities. This decision-making process typically involves discussions with relevant stakeholders, ensuring that there is an understanding of what is at stake. Contrast this with the notion of rejecting risks or attempting to eliminate them completely; such actions may not only be impractical but could also hinder operational capabilities and innovation. Thus, risk acceptance serves as a strategic approach to risk management, allowing organizations to proceed with operations while acknowledging and monitoring those risks.

10. Identifying residual risk is essential for which of the following reasons?

- A. It indicates that security measures are unnecessary**
- B. It helps in recognizing the effectiveness of security controls**
- C. It provides a complete elimination of risk**
- D. It measures the speed of system recovery**

Identifying residual risk is essential because it helps in recognizing the effectiveness of security controls. Residual risk is the part of risk that remains after security measures have been implemented. By assessing this risk, organizations can evaluate how well their security controls are functioning and whether they are adequately mitigating threats. Understanding residual risk is crucial for decision-makers as it informs them about the potential vulnerabilities that still exist and aids in prioritizing further security improvements or risk management strategies. In this context, it also serves as feedback for revisiting security policies and procedures, thereby fostering an environment of continuous improvement in the risk management process. This understanding ultimately assists in the ongoing effort to protect organizational assets and ensure compliance with relevant regulations.