Exam Questions CISM

Certified Information Security Manager

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NEW QUESTION 1
When personal information is transmitted across networks, there MUST be adequate controls over:

A. change managemen
B. privacy protectio
C. consent to data transfe
D. encryption device

Answer: B

Explanation:

Privacy protection is necessary to ensure that the receiving party has the appropriate level of protection of personal data. Change management primarily protects only the information, not the privacy of the individuals. Consent is one of the protections that is frequently, but not always, required. Encryption is a method of achieving the actual control, but controls over the devices may not ensure adequate privacy protection and. therefore, is a partial answer.

NEW QUESTION 2
Which of the following would be MOST effective in successfully implementing restrictive password policies?

A. Regular password audits
B. Single sign-on system
C. Security awareness program
D. Penalties for noncompliance

Answer: C

Explanation:

To be successful in implementing restrictive password policies, it is necessary to obtain the buy-in of the end users. The best way to accomplish this is through a security awareness program. Regular password audits and penalties for noncompliance would not be as effective on their own; people would go around them unless forced by the system. Single sign-on is a technology solution that would enforce password complexity but would not promote user compliance. For the effort to be more effective, user buy-in is important.

NEW QUESTION 3
What would be the MOST significant security risks when using wireless local area network (LAN) technology?

A. Man-in-the-middle attack
B. Spoofing of data packets
C. Rogue access point
D. Session hijacking

Answer: C

Explanation:

A rogue access point masquerades as a legitimate access point The risk is that legitimate users may connect through this access point and have their traffic monitored. All other choices are not dependent on the use of a wireless local area network (LAN) technology.

NEW QUESTION 4
Successful implementation of information security governance will FIRST require:

A. security awareness trainin
B. updated security policie
C. a computer incident management tea
D. a security architectur

Answer: B

Explanation:

Updated security policies are required to align management objectives with security procedures; management objectives translate into policy, policy translates into procedures. Security procedures will necessitate specialized teams such as the computer incident response and management group as well as specialized tools such as the security mechanisms that comprise the security architecture. Security awareness will promote the policies, procedures and appropriate use of the security mechanisms.

NEW QUESTION 5
A multinational organization operating in fifteen countries is considering implementing an information security program. Which factor will MOST influence the design of the
Information security program?

A. Representation by regional business leaders
B. Composition of the board
C. Cultures of the different countries
D. IT security skills

Answer: C

Explanation:

Culture has a significant impact on how information security will be implemented. Representation by regional business leaders may not have a major influence unless it concerns cultural issues. Composition of the board may not have a significant impact compared to cultural issues. IT security skills are not as key or high impact in designing a multinational information security program as would be cultural issues.

NEW QUESTION 6
Investments in information security technologies should be based on:

A. vulnerability assessment
B. value analysi
C. business climat
D. audit recommendation

Answer: B

Explanation:

Investments in security technologies should be based on a value analysis and a sound business case. Demonstrated value takes precedence over the current business climate because it is ever changing. Basing decisions on audit recommendations would be reactive in nature and might not address the key business needs comprehensively. Vulnerability assessments are useful, but they do not determine whether the cost is justified.

NEW QUESTION 7
Which of the following MOST commonly falls within the scope of an information security governance steering committee?

A. Interviewing candidates for information security specialist positions
B. Developing content for security awareness programs
C. Prioritizing information security initiatives
D. Approving access to critical financial systems

Answer: C

Explanation:

Prioritizing information security initiatives is the only appropriate item. The interviewing of specialists should be performed by the information security manager, while the developing of program content should be performed by the information security staff. Approving access to critical financial systems is the responsibility of individual system data owners.

NEW QUESTION 8
A new regulation for safeguarding information processed by a specific type of transaction has come to the attention of an information security officer. The officer should FIRST:

A. meet with stakeholders to decide how to compl
B. analyze key risks in the compliance proces
C. assess whether existing controls meet the regulatio
D. update the existing security/privacy polic

Answer: C

Explanation:

If the organization is in compliance through existing controls, the need to perform other work related to the regulation is not a priority. The other choices are appropriate and important; however, they are actions that are subsequent and will depend on whether there is an existing control gap.

NEW QUESTION 9
The chief information security officer (CISO) should ideally have a direct reporting relationship to the:

A. head of internal audi
B. chief operations officer (COO).
C. chief technology officer (CTO).
D. legal counse

Answer: B

Explanation:

The chief information security officer (CISO) should ideally report to as high a level within the organization as possible. Among the choices given, the chief operations officer (COO) would have not only the appropriate level but also the knowledge of day-to-day operations. The head of internal audit and legal counsel would make good secondary choices, although they would not be as knowledgeable of the operations. Reporting to the chief technology officer (CTO) could become problematic as the CTO's goals for the infrastructure might, at times, run counter to the goals of information security.

NEW QUESTION 10
Information security policy enforcement is the responsibility of the:

A. security steering committe
B. chief information officer (CIO).
C. chief information security officer (CISO).

D. chief compliance officer (CCO).

Answer: C

Explanation:

Information security policy enforcement is the responsibility of the chief information security officer (CISO), first and foremost. The board of directors and executive management should ensure that a security policy is in line with corporate objectives. The chief information officer (CIO) and the chief compliance officer (CCO) are involved in the enforcement of the policy but are not directly responsible for it.

NEW QUESTION 10
Which of the following is the MOST important factor when designing information security architecture?

A. Technical platform interfaces
B. Scalability of the network
C. Development methodologies
D. Stakeholder requirements

Answer: D

Explanation:

The most important factor for information security is that it advances the interests of the business, as defined by stakeholder requirements. Interoperability and scalability, as well as development methodologies, are all important but are without merit if a technologically-elegant solution is achieved that does not meet the needs of the business.

NEW QUESTION 15
Which of the following is the MOST important to keep in mind when assessing the value of information?

A. The potential financial loss
B. The cost of recreating the information
C. The cost of insurance coverage
D. Regulatory requirement

Answer: A

Explanation:

The potential for financial loss is always a key factor when assessing the value of information. Choices B, C and D may be contributors, but not the key factor.

NEW QUESTION 20
Investment in security technology and processes should be based on:

A. clear alignment with the goals and objectives of the organizatio
B. success cases that have been experienced in previous project
C. best business practice
D. safeguards that are inherent in existing technolog

Answer: A

Explanation:

Organization maturity level for the protection of information is a clear alignment with goals and objectives of the organization. Experience in previous projects is dependent upon other business models which may not be applicable to the current model. Best business practices may not be applicable to the organization's business needs. Safeguards inherent to existing technology are low cost but may not address all business needs and/or goals of the organization.

NEW QUESTION 25
Senior management commitment and support for information security will BEST be attained by an information security manager by emphasizing:

A. organizational ris
B. organization wide metric
C. security need
D. the responsibilities of organizational unit

Answer: A

Explanation:

Information security exists to help the organization meet its objectives. The information security manager should identify information security needs based on organizational needs. Organizational or business risk should always take precedence. Involving each organizational unit in information security and establishing metrics to measure success will be viewed favorably by senior management after the overall organizational risk is identified.

NEW QUESTION 27
Which of the following is the MOST important prerequisite for establishing information security management within an organization?

A. Senior management commitment
B. Information security framework

C. Information security organizational structure
D. Information security policy

Answer: A

Explanation:

Senior management commitment is necessary in order for each of the other elements to succeed. Without senior management commitment, the other elements will likely be ignored within the organization.

NEW QUESTION 29
Which of the following is a benefit of information security governance?

A. Reduction of the potential for civil or legal liability
B. Questioning trust in vendor relationships
C. Increasing the risk of decisions based on incomplete management information
D. Direct involvement of senior management in developing control processes

Answer: A

Explanation:

Information security governance decreases the risk of civil or legal liability. The remaining answers are incorrect. Option D appears to be correct, but senior management would provide oversight and approval as opposed to direct involvement in developing control processes.

NEW QUESTION 33
Which of the following is the MOST important element of an information security strategy?

A. Defined objectives
B. Time frames for delivery
C. Adoption of a control framework
D. Complete policies

Answer: A

Explanation:

Without defined objectives, a strategy—the plan to achieve objectives—cannot be developed. Time frames for delivery are important but not critical for inclusion in the strategy document. Similarly, the adoption of a control framework is not critical to having a successful information security strategy. Policies are developed subsequent to, and as a part of, implementing a strategy.

NEW QUESTION 34
From an information security perspective, information that no longer supports the main purpose of the business should be:

A. analyzed under the retention polic
B. protected under the information classification polic
C. analyzed under the backup polic
D. protected under the business impact analysis (BIA).

Answer: A

Explanation:

Option A is the type of analysis that will determine whether the organization is required to maintain the data for business, legal or regulatory reasons. Keeping data that are no longer required unnecessarily consumes resources, and, in the case of sensitive personal information, can increase the risk of data compromise. Options B. C and D are attributes that should be considered in the destruction and retention policy. A BIA could help determine that this information does not support the main objective of the business, but does not indicate the action to take.

NEW QUESTION 36
Which of the following is characteristic of centralized information security management?

A. More expensive to administer
B. Better adherence to policies
C. More aligned with business unit needs
D. Faster turnaround of requests

Answer: B

Explanation:

Centralization of information security management results in greater uniformity and better adherence to security policies. It is generally less expensive to administer due to the economics of scale. However, turnaround can be slower due to the lack of alignment with business units.

NEW QUESTION 40
Senior management commitment and support for information security can BEST be obtained through presentations that:

A. use illustrative examples of successful attack

B. explain the technical risks to the organizatio
C. evaluate the organization against best security practice
D. tie security risks to key business objective

Answer: D

Explanation:

Senior management seeks to understand the business justification for investing in security. This can best be accomplished by tying security to key business objectives. Senior management will not be as interested in technical risks or examples of successful attacks if they are not tied to the impact on business environment and objectives. Industry best practices are important to senior management but, again, senior management will give them the right level of importance when they are presented in terms of key business objectives.

NEW QUESTION 43
The PRIMARY concern of an information security manager documenting a formal data retention policy would be:

A. generally accepted industry best practice
B. business requirement
C. legislative and regulatory requirement
D. storage availabilit

Answer: B

Explanation:

The primary concern will be to comply with legislation and regulation but only if this is a genuine business requirement. Best practices may be a useful guide but not a primary concern. Legislative and regulatory requirements are only relevant if compliance is a business need. Storage is irrelevant since whatever is needed must be provided

NEW QUESTION 47
The MOST basic requirement for an information security governance program is to:

A. be aligned with the corporate business strateg
B. be based on a sound risk management approac
C. provide adequate regulatory complianc
D. provide best practices for security- initiative

Answer: A

Explanation:

To receive senior management support, an information security program should be aligned with the corporate business strategy. Risk management is a requirement of an information security program which should take into consideration the business strategy. Security governance is much broader than just regulatory compliance. Best practice is an operational concern and does not have a direct impact on a governance program.

NEW QUESTION 52
Which of the following would BEST prepare an information security manager for regulatory reviews?

A. Assign an information security administrator as regulatory liaison
B. Perform self-assessments using regulatory guidelines and reports
C. Assess previous regulatory reports with process owners input
D. Ensure all regulatory inquiries are sanctioned by the legal department

Answer: B

Explanation:

Self-assessments provide the best feedback on readiness and permit identification of items requiring remediation. Directing regulators to a specific person or department, or assessing previous reports, is not as effective. The legal department should review all formal inquiries but this does not help prepare for a regulatory review.

NEW QUESTION 57
The MOST important characteristic of good security policies is that they:

A. state expectations of IT managemen
B. state only one general security mandat
C. are aligned with organizational goal
D. govern the creation of procedures and guideline

Answer: C

Explanation:

The most important characteristic of good security policies is that they be aligned with organizational goals. Failure to align policies and goals significantly reduces the value provided by the policies. Stating expectations of IT management omits addressing overall organizational goals and objectives. Stating only one general security mandate is the next best option since policies should be clear; otherwise, policies may be confusing and difficult to understand. Governing the creation of procedures and guidelines is most relevant to information security standards.

NEW QUESTION 58
Acceptable levels of information security risk should be determined by:

A. legal counse
B. security managemen
C. external auditor
D. die steering committe

Answer: D

Explanation:

Senior management, represented in the steering committee, has ultimate responsibility for determining what levels of risk the organization is willing to assume. Legal counsel, the external auditors and security management are not in a position to make such a decision.

NEW QUESTION 61
Obtaining senior management support for establishing a warm site can BEST be accomplished by:

A. establishing a periodic risk assessmen
B. promoting regulatory requirement
C. developing a business cas
D. developing effective metric

Answer: C

Explanation:

Business case development, including a cost-benefit analysis, will be most persuasive to management. A risk assessment may be included in the business ease, but by itself will not be as effective in gaining management support. Informing management of regulatory requirements may help gain support for initiatives, but given that more than half of all organizations are not in compliance with regulations, it is unlikely to be sufficient in many cases. Good metrics which provide assurance that initiatives are meeting organizational goals will also be useful, but are insufficient in gaining management support.

NEW QUESTION 62
A good privacy statement should include:

A. notification of liability on accuracy of informatio
B. notification that information will be encrypte
C. what the company will do with information it collect
D. a description of the information classification proces

Answer: C

Explanation:

Most privacy laws and regulations require disclosure on how information will be used. Choice A is incorrect because that information should be located in the web site's disclaimer. Choice B is incorrect because, although encryption may be applied, this is not generally disclosed. Choice D is incorrect because information classification would be contained in a separate policy.

NEW QUESTION 66
Retention of business records should PRIMARILY be based on:

A. business strategy and directio
B. regulatory and legal requirement
C. storage capacity and longevit
D. business ease and value analysi

Answer: B

Explanation:

Retention of business records is generally driven by legal and regulatory requirements. Business strategy and direction would not normally apply nor would they override legal and regulatory requirements. Storage capacity and longevity are important but secondary issues. Business case and value analysis would be secondary to complying with legal and regulatory requirements.

NEW QUESTION 71
When implementing effective security governance within the requirements of the company's security strategy, which of the following is the MOST important factor to consider?

A. Preserving the confidentiality of sensitive data
B. Establishing international security standards for data sharing
C. Adhering to corporate privacy standards
D. Establishing system manager responsibility for information security

Answer: A

Explanation:

The goal of information security is to protect the organization's information assets. International security standards are situational, depending upon the company

and its business. Adhering to corporate privacy standards is important, but those standards must be appropriate and adequate and are not the most important factor to consider. All employees are responsible for information security, but it is not the most important factor to consider.

NEW QUESTION 72
What is the MOST important factor in the successful implementation of an enterprise wide information security program?

A. Realistic budget estimates
B. Security awareness
C. Support of senior management
D. Recalculation of the work factor

Answer: C

Explanation:

Without the support of senior management, an information security program has little chance of survival. A company's leadership group, more than any other group, will more successfully drive the program. Their authoritative position in the company is a key factor. Budget approval, resource commitments, and companywide participation also require the buy-in from senior management. Senior management is responsible for providing an adequate budget and the necessary resources. Security awareness is important, but not the most important factor. Recalculation of the work factor is a part of risk management.

NEW QUESTION 77
Which of the following is the BEST justification to convince management to invest in an information security program?

A. Cost reduction
B. Compliance with company policies
C. Protection of business assets
D. Increased business value

Answer: D

Explanation:

Investing in an information security program should increase business value and confidence. Cost reduction by itself is rarely the motivator for implementing an information security program. Compliance is secondary to business value. Increasing business value may include protection of business assets.

NEW QUESTION 78
When an organization hires a new information security manager, which of the following goals should this individual pursue FIRST?

A. Develop a security architecture
B. Establish good communication with steering committee members
C. Assemble an experienced staff
D. Benchmark peer organizations

Answer: B

Explanation:

New information security managers should seek to build rapport and establish lines of communication with senior management to enlist their support. Benchmarking peer organizations is beneficial to better understand industry best practices, but it is secondary to obtaining senior management support. Similarly, developing a security architecture and assembling an experienced staff are objectives that can be obtained later.

NEW QUESTION 79
Which of the following situations would MOST inhibit the effective implementation of security governance:

A. The complexity of technology
B. Budgetary constraints
C. Conflicting business priorities
D. High-level sponsorship

Answer: D

Explanation:

The need for senior management involvement and support is a key success factor for the implementation of appropriate security governance. Complexity of technology, budgetary constraints and conflicting business priorities are realities that should be factored into the governance model of the organization, and should not be regarded as inhibitors.

NEW QUESTION 81
When developing an information security program, what is the MOST useful source of information for determining available resources?

A. Proficiency test
B. Job descriptions
C. Organization chart
D. Skills inventory

Answer: D

Explanation:

A skills inventory would help identify- the available resources, any gaps and the training requirements for developing resources. Proficiency testing is useful but only with regard to specific technical skills. Job descriptions would not be as useful since they may be out of date or not sufficiently detailed. An organization chart would not provide the details necessary to determine the resources required for this activity.

NEW QUESTION 85
The MOST important component of a privacy policy is:

A. notification
B. warrantie
C. liabilitie
D. geographic coverag

Answer: A

Explanation:

Privacy policies must contain notifications and opt-out provisions: they are a high-level management statement of direction. They do not necessarily address warranties, liabilities or geographic coverage, which are more specific.

NEW QUESTION 86
Which of the following is MOST appropriate for inclusion in an information security strategy?

A. Business controls designated as key controls
B. Security processes, methods, tools and techniques
C. Firewall rule sets, network defaults and intrusion detection system (IDS) settings
D. Budget estimates to acquire specific security tools

Answer: B

Explanation:

A set of security objectives, processes, methods, tools and techniques together constitute a security strategy. Although IT and business governance are intertwined, business controls may not be included in a security strategy. Budgets will generally not be included in an information security strategy. Additionally, until information security strategy is formulated and implemented, specific tools will not be identified and specific cost estimates will not be available. Firewall rule sets, network defaults and intrusion detection system (IDS) settings are technical details subject to periodic change, and are not appropriate content for a strategy document.

NEW QUESTION 89
Who in an organization has the responsibility for classifying information?

A. Data custodian
B. Database administrator
C. Information security officer
D. Data owner

Answer: D

Explanation:

The data owner has full responsibility over data. The data custodian is responsible for securing the information. The database administrator carries out the technical administration. The information security officer oversees the overall classification management of the information.

NEW QUESTION 94
Which of the following characteristics is MOST important when looking at prospective candidates for the role of chief information security officer (CISO)?

A. Knowledge of information technology platforms, networks and development methodologies
B. Ability to understand and map organizational needs to security technologies
C. Knowledge of the regulatory environment and project management techniques
D. Ability to manage a diverse group of individuals and resources across an organization

Answer: B

Explanation:

Information security will be properly aligned with the goals of the business only with the ability to understand and map organizational needs to enable security technologies. All of the other choices are important but secondary to meeting business security needs.

NEW QUESTION 95
Senior management commitment and support for information security can BEST be enhanced through:

A. a formal security policy sponsored by the chief executive officer (CEO).
B. regular security awareness training for employee
C. periodic review of alignment with business management goal
D. senior management signoff on the information security strateg

Answer: C

Explanation:

Ensuring that security activities continue to be aligned and support business goals is critical to obtaining their support. Although having the chief executive officer (CEO) signoff on the security policy and senior management signoff on the security strategy makes for good visibility and demonstrates good tone at the top, it is a one-time discrete event that may be quickly forgotten by senior management. Security awareness training for employees will not have as much effect on senior management commitment.

NEW QUESTION 99
When developing incident response procedures involving servers hosting critical applications, which of the following should be the FIRST to be notified?

A. Business management
B. Operations manager
C. Information security manager
D. System users

Answer: C

Explanation:

The escalation process in critical situations should involve the information security manager as the first contact so that appropriate escalation steps are invoked as necessary. Choices A, B and D would be notified accordingly.

NEW QUESTION 103
The MOST important factor in ensuring the success of an information security program is effective:

A. communication of information security requirements to all users in the organizatio
B. formulation of policies and procedures for information securit
C. alignment with organizational goals and objectives .
D. monitoring compliance with information security policies and procedure

Answer: C

Explanation:

The success of security programs is dependent upon alignment with organizational goals and objectives. Communication is a secondary step. Effective communication and education of users is a critical determinant of success but alignment with organizational goals and objectives is the most important factor for success. Mere formulation of policies without effective communication to users will not ensure success. Monitoring compliance with information security policies and procedures can be, at best, a detective mechanism that will not lead to success in the midst of uninformed users.

NEW QUESTION 108
An information security manager at a global organization that is subject to regulation by multiple governmental jurisdictions with differing requirements should:

A. bring all locations into conformity with the aggregate requirements of all governmental jurisdiction
B. establish baseline standards for all locations and add supplemental standards as require
C. bring all locations into conformity with a generally accepted set of industry best practice
D. establish a baseline standard incorporating those requirements that all jurisdictions have in commo

Answer: B

Explanation:

It is more efficient to establish a baseline standard and then develop additional standards for locations that must meet specific requirements. Seeking a lowest common denominator or just using industry best practices may cause certain locations to fail regulatory compliance. The opposite approach—forcing all locations to be in compliance with the regulations places an undue burden on those locations.

NEW QUESTION 112
The FIRST step to create an internal culture that focuses on information security is to:

A. implement stronger control
B. conduct periodic awareness trainin
C. actively monitor operation
D. gain the endorsement of executive managemen

Answer: D

Explanation:

Endorsement of executive management in the form of policies provides direction and awareness. The implementation of stronger controls may lead to circumvention. Awareness training is important, but must be based on policies. Actively monitoring operations will not affect culture at all levels.

NEW QUESTION 117
When performing a quantitative risk analysis, which of the following is MOST important to estimate the potential loss?

A. Evaluate productivity losses
B. Assess the impact of confidential data disclosure

C. Calculate the value of the information or asset
D. Measure the probability of occurrence of each threat

Answer: C

Explanation:

Calculating the value of the information or asset is the first step in a risk analysis process to determine the impact to the organization, which is the ultimate goal. Determining how much productivity could be lost and how much it would cost is a step in the estimation of potential risk process. Knowing the impact if confidential information is disclosed is also a step in the estimation of potential risk. Measuring the probability of occurrence for each threat identified is a step in performing a threat analysis and therefore a partial answer.

NEW QUESTION 118
An organization has to comply with recently published industry regulatory requirements—compliance that potentially has high implementation costs. What should the information security manager do FIRST?

A. Implement a security committe
B. Perform a gap analysi
C. Implement compensating control
D. Demand immediate complianc

Answer: B

Explanation:
Since they are regulatory requirements, a gap analysis would be the first step to determine the level of compliance already in place. Implementing a security committee or compensating controls would not be the first step. Demanding immediate compliance would not assess the situation.

NEW QUESTION 123
All risk management activities are PRIMARILY designed to reduce impacts to:

A. a level defined by the security manage
B. an acceptable level based on organizational risk toleranc
C. a minimum level consistent with regulatory requirement
D. the minimum level possibl

Answer: B

Explanation:

The aim of risk management is to reduce impacts to an acceptable level. "Acceptable" or "reasonable" are relative terms that can vary based on environment and circumstances. A minimum level that is consistent with regulatory requirements may not be consistent with business objectives, and regulators typically do not assign risk levels. The minimum level possible may not be aligned with business requirements.

NEW QUESTION 126
The impact of losing frame relay network connectivity for 18-24 hours should be calculated using the:

A. hourly billing rate charged by the carrie
B. value of the data transmitted over the networ
C. aggregate compensation of all affected business user
D. financial losses incurred by affected business unit

Answer: D

Explanation:

The bottom line on calculating the impact of a loss is what its cost will be to the organization. The other choices are all factors that contribute to the overall monetary impact.

NEW QUESTION 128
An information security manager has been assigned to implement more restrictive preventive controls. By doing so, the net effect will be to PRIMARILY reduce the:

A. threa
B. los
C. vulnerabilit
D. probabilit

Answer: C

Explanation:

Implementing more restrictive preventive controls mitigates vulnerabilities but not the threats. Losses and probability of occurrence may not be primarily or directly affected.

NEW QUESTION 131
Ongoing tracking of remediation efforts to mitigate identified risks can BEST be accomplished through the use of which of the following?

A. Tree diagrams
B. Venn diagrams
C. Heat charts
D. Bar charts

Answer: C

Explanation:

Meat charts, sometimes referred to as stoplight charts, quickly and clearly show the current status of remediation efforts. Venn diagrams show the connection between sets; tree diagrams are useful for decision analysis; and bar charts show relative size.

NEW QUESTION 136
Previously accepted risk should be:

A. re-assessed periodically since the risk can be escalated to an unacceptable level due to revised condition
B. accepted permanently since management has already spent resources (time and labor) to conclude that the risk level is acceptabl
C. avoided next time since risk avoidance provides the best protection to the compan
D. removed from the risk log once it is accepte

Answer: A

Explanation:

Acceptance of risk should be regularly reviewed to ensure that the rationale for the initial risk acceptance is still valid within the current business context. The rationale for initial risk acceptance may no longer be valid due to change(s) and. hence, risk cannot be accepted permanently. Risk is an inherent part of business and it is impractical and costly to eliminate all risk. Even risks that have been accepted should be monitored for changing conditions that could alter the original decision.

NEW QUESTION 140
Which would be one of the BEST metrics an information security manager can employ to effectively evaluate the results of a security program?

A. Number of controls implemented
B. Percent of control objectives accomplished
C. Percent of compliance with the security policy
D. Reduction in the number of reported security incidents

Answer: B

Explanation:

Control objectives are directly related to business objectives; therefore, they would be the best metrics. Number of controls implemented does not have a direct relationship with the results of a security program. Percentage of compliance with the security policy and reduction in the number of security incidents are not as broad as choice B.

NEW QUESTION 145
Risk acceptance is a component of which of the following?

A. Assessment
B. Mitigation
C. Evaluation
D. Monitoring

Answer: B

Explanation:

Risk acceptance is one of the alternatives to be considered in the risk mitigation process. Assessment and evaluation are components of the risk analysis process. Risk acceptance is not a component of monitoring.

NEW QUESTION 148
A successful risk management program should lead to:

A. optimization of risk reduction efforts against cos
B. containment of losses to an annual budgeted amoun
C. identification and removal of all man-made threat
D. elimination or transference of all organizational risk

Answer: A

Explanation:

Successful risk management should lead to a breakeven point of risk reduction and cost. The other options listed are not achievable. Threats cannot be totally removed or transferred, while losses cannot be budgeted in advance with absolute certainty.

NEW QUESTION 152
When the computer incident response team (CIRT) finds clear evidence that a hacker has penetrated the corporate network and modified customer information, an

information security manager should FIRST notify:

A. the information security steering committe
B. customers who may be impacte
C. data owners who may be impacte
D. regulatory- agencies overseeing privac

Answer: C

Explanation:

The data owners should be notified first so they can take steps to determine the extent of the damage and coordinate a plan for corrective action with the computer incident response team. Other parties will be notified later as required by corporate policy and regulatory requirements.

NEW QUESTION 157
The MOST important function of a risk management program is to:

A. quantify overall ris
B. minimize residual ris
C. eliminate inherent ris
D. maximize the sum of all annualized loss expectancies (ALEs).

Answer: B

Explanation:

A risk management program should minimize the amount of risk that cannot be otherwise eliminated or transferred; this is the residual risk to the organization. Quantifying overall risk is important but not as critical as the end result. Eliminating inherent risk is virtually impossible. Maximizing the sum of all ALEs is actually the opposite of what is desirable.

NEW QUESTION 158
A risk mitigation report would include recommendations for:

A. assessmen
B. acceptance
C. evaluatio
D. quantificatio

Answer: B

Explanation:

Acceptance of a risk is an alternative to be considered in the risk mitigation process. Assessment. evaluation and risk quantification are components of the risk analysis process that are completed prior to determining risk mitigation solutions.

NEW QUESTION 163
Risk assessment is MOST effective when performed:

A. at the beginning of security program developmen
B. on a continuous basi
C. while developing the business case for the security progra
D. during the business change proces

Answer: B

Explanation:

Risk assessment needs to be performed on a continuous basis because of organizational and technical changes. Risk assessment must take into account all significant changes in order to be effective.

NEW QUESTION 166
Which of the following security activities should be implemented in the change management process to identify key vulnerabilities introduced by changes?

A. Business impact analysis (BIA)
B. Penetration testing
C. Audit and review
D. Threat analysis

Answer: B

Explanation:

Penetration testing focuses on identifying vulnerabilities. None of the other choices would identify vulnerabilities introduced by changes.

NEW QUESTION 169
The recovery time objective (RTO) is reached at which of the following milestones?

A. Disaster declaration
B. Recovery of the backups
C. Restoration of the system
D. Return to business as usual processing

Answer: C

Explanation:

The recovery time objective (RTO) is based on the amount of time required to restore a system; disaster declaration occurs at the beginning of this period. Recovery of the backups occurs shortly after the beginning of this period. Return to business as usual processing occurs significantly later than the RTO. RTO is an "objective," and full restoration may or may not coincide with the RTO. RTO can be the minimum acceptable operational level, far short of normal operations.

NEW QUESTION 171
Which of the following are the essential ingredients of a business impact analysis (B1A)?

A. Downtime tolerance, resources and criticality
B. Cost of business outages in a year as a factor of the security budget
C. Business continuity testing methodology being deployed
D. Structure of the crisis management team

Answer: A

Explanation:
The main purpose of a BIA is to measure the downtime tolerance, associated resources and criticality of a business function. Options B, C and D are all associated with business continuity planning, but are not related to the BIA.

NEW QUESTION 172
To ensure that payroll systems continue on in an event of a hurricane hitting a data center, what would be the FIRS T crucial step an information security manager would take in ensuring business continuity planning?

A. Conducting a qualitative and quantitative risk analysi
B. Assigning value to the asset
C. Weighing the cost of implementing the plan v
D. financial los
E. Conducting a business impact analysis (BIA).

Answer: D

Explanation:

BIA is an essential component of an organization's business continuity plan; it includes an exploratory component to reveal any vulnerabilities and a planning component to develop strategies for minimizing risk. It is the first crucial step in business continuity planning. Qualitative and quantitative risk analysis will have been completed to define the dangers to individuals, businesses and government agencies posed by potential natural and human-caused adverse events. Assigning value to assets is part of the BIA process. Weighing the cost of implementing the plan vs. financial loss is another part of the BIA.

NEW QUESTION 175
Which of the following would generally have the GREATEST negative impact on an organization?

A. Theft of computer software
B. Interruption of utility services
C. Loss of customer confidence
D. Internal fraud resulting in monetary loss

Answer: C

Explanation:

Although the theft of software, interruption of utility services and internal frauds are all significant, the loss of customer confidence is the most damaging and could cause the business to fail.

NEW QUESTION 176
Which of the following techniques MOST clearly indicates whether specific risk-reduction controls should be implemented?

A. Countermeasure cost-benefit analysis
B. Penetration testing
C. Frequent risk assessment programs
D. Annual loss expectancy (ALE) calculation

Answer: A

Explanation:

In a countermeasure cost-benefit analysis, the annual cost of safeguards is compared with the expected cost of loss. This can then be used to justify a specific control measure. Penetration testing may indicate the extent of a weakness but, by itself, will not establish the cost/benefit of a control. Frequent risk assessment programs will certainly establish what risk exists but will not determine the maximum cost of controls. Annual loss expectancy (ALE) is a measure which will contribute to the value of the risk but. alone, will not justify a control.

NEW QUESTION 178
Which of the following is the MOST effective way to treat a risk such as a natural disaster that has a low probability and a high impact level?

A. Implement countermeasure
B. Eliminate the ris
C. Transfer the ris
D. Accept the ris

Answer: C

Explanation:

Risks are typically transferred to insurance companies when the probability of an incident is low but the impact is high. Examples include: hurricanes, tornados and earthquakes. Implementing countermeasures may not be the most cost-effective approach to security management. Eliminating the risk may not be possible. Accepting the risk would leave the organization vulnerable to a catastrophic disaster which may cripple or ruin the organization. It would be more cost effective to pay recurring insurance costs than to be affected by a disaster from which the organization cannot financially recover.

NEW QUESTION 181
Which of the following attacks is BEST mitigated by utilizing strong passwords?

A. Man-in-the-middle attack
B. Brute force attack
C. Remote buffer overflow
D. Root kit

Answer: B

Explanation:

A brute force attack is normally successful against weak passwords, whereas strong passwords would not prevent any of the other attacks. Man-in-the-middle attacks intercept network traffic, which could contain passwords, but is not naturally password-protected. Remote buffer overflows rarely require a password to exploit a remote host. Root kits hook into the operating system's kernel and, therefore, operate underneath any authentication mechanism.

NEW QUESTION 183
Based on the information provided, which of the following situations presents the GREATEST information security risk for an organization with multiple, but small, domestic processing locations?

A. Systems operation procedures are not enforced
B. Change management procedures are poor
C. Systems development is outsourced
D. Systems capacity management is not performed

Answer: B

Explanation:

The lack of change management is a severe omission and will greatly increase information security risk. Since procedures are generally nonauthoritative, their lack of enforcement is not a primary concern. Systems that are developed by third-party vendors are becoming commonplace and do not represent an increase in security risk as much as poor change management. Poor capacity management may not necessarily represent a security risk.

NEW QUESTION 186
The PRIMARY objective of a risk management program is to:

A. minimize inherent ris
B. eliminate business ris
C. implement effective control
D. minimize residual ris

Answer: D

Explanation:

The goal of a risk management program is to ensure that residual risk remains within manageable levels. Management of risk does not always require the removal of inherent risk nor is this always possible. A possible benefit of good risk management is to reduce insurance premiums, but this is not its primary intention. Effective controls are naturally a clear objective of a risk management program, but with the choices given, choice C is an incomplete answer.

NEW QUESTION 189
The valuation of IT assets should be performed by:

A. an IT security manage
B. an independent security consultan
C. the chief financial officer (CFO).
D. the information owne

Answer: D

Explanation:

Information asset owners are in the best position to evaluate the value added by the IT asset under review within a business process, thanks to their deep knowledge of the business processes and of the functional IT requirements. An IT security manager is an expert of the IT risk assessment methodology and IT asset valuation mechanisms. However, the manager could not have a deep understanding of all the business processes of the firm. An IT security subject matter expert will take part of the process to identify threats and vulnerabilities and will collaborate with the business information asset owner to define the risk profile of the asset. A chief financial officer (CFO) will have an overall costs picture but not detailed enough to evaluate the value of each IT asset.

NEW QUESTION 193
The decision as to whether a risk has been reduced to an acceptable level should be determined by:

A. organizational requirement
B. information systems requirement
C. information security requirement
D. international standard

Answer: A

Explanation:

Organizational requirements should determine when a risk has been reduced to an acceptable level. Information systems and information security should not make the ultimate determination. Since each organization is unique, international standards of best practice do not represent the best solution.

NEW QUESTION 196
Which of the following is the MAIN reason for performing risk assessment on a continuous basis'?

A. Justification of the security budget must be continually mad
B. New vulnerabilities are discovered every da
C. The risk environment is constantly changin
D. Management needs to be continually informed about emerging risk

Answer: C

Explanation:

The risk environment is impacted by factors such as changes in technology, and business strategy. These changes introduce new threats and vulnerabilities to the organization. As a result, risk assessment should be performed continuously. Justification of a budget should never be the main reason for performing a risk assessment. New vulnerabilities should be managed through a patch management process. Informing management about emerging risks is important, but is not the main driver for determining when a risk assessment should be performed.

NEW QUESTION 197
Which of the following will BEST protect an organization from internal security attacks?

A. Static IP addressing
B. Internal address translation
C. Prospective employee background checks
D. Employee awareness certification program

Answer: C

Explanation:

Because past performance is a strong predictor of future performance, background checks of prospective employees best prevents attacks from originating within an organization. Static IP addressing does little to prevent an internal attack. Internal address translation using non-routable addresses is useful against external attacks but not against internal attacks. Employees who certify that they have read security policies are desirable, but this does not guarantee that the employees behave honestly.

NEW QUESTION 202
Which of the following steps should be performed FIRST in the risk assessment process?

A. Staff interviews
B. Threat identification
C. Asset identification and valuation
D. Determination of the likelihood of identified risks

Answer: C

Explanation:

The first step in the risk assessment methodology is a system characterization, or identification and valuation, of all of the enterprise's assets to define the boundaries of the assessment. Interviewing is a valuable tool to determine qualitative information about an organization's objectives and tolerance for risk. Interviews are used in subsequent steps. Identification of threats comes later in the process and should not be performed prior to an inventory since many possible threats will not be applicable if there is no asset at risk. Determination of likelihood comes later in the risk assessment process.

NEW QUESTION 207
Because of its importance to the business, an organization wants to quickly implement a technical solution which deviates from the company's policies. An information security manager should:

A. conduct a risk assessment and allow or disallow based on the outcom
B. recommend a risk assessment and implementation only if the residual risks are accepte
C. recommend against implementation because it violates the company's policie
D. recommend revision of current polic

Answer: B

Explanation:

Whenever the company's policies cannot be followed, a risk assessment should be conducted to clarify the risks. It is then up to management to accept the risks or to mitigate them. Management determines the level of risk they are willing to take. Recommending revision of current policy should not be triggered by a single request.

NEW QUESTION 212
Which of the following groups would be in the BEST position to perform a risk analysis for a business?

A. External auditors
B. A peer group within a similar business
C. Process owners
D. A specialized management consultant

Answer: C

Explanation:

Process owners have the most in-depth knowledge of risks and compensating controls within their environment. External parties do not have that level of detailed knowledge on the inner workings of the business. Management consultants are expected to have the necessary skills in risk analysis techniques but are still less effective than a group with intimate knowledge of the business.

NEW QUESTION 217
Which of the following is the MOST important requirement for setting up an information security infrastructure for a new system?

A. Performing a business impact analysis (BIA)
B. Considering personal information devices as pan of the security policy
C. Initiating IT security training and familiarization
D. Basing the information security infrastructure on risk assessment

Answer: D

Explanation:

The information security infrastructure should be based on risk. While considering personal information devices as part of the security policy may be a consideration, it is not the most important requirement. A BIA is typically carried out to prioritize business processes as part of a business continuity plan. Initiating IT security training may not be important for the purpose of the information security infrastructure.

NEW QUESTION 219
After a risk assessment study, a bank with global operations decided to continue doing business in certain regions of the world where identity theft is rampant. The information security manager should encourage the business to:

A. increase its customer awareness efforts in those region
B. implement monitoring techniques to detect and react to potential frau
C. outsource credit card processing to a third part
D. make the customer liable for losses if they fail to follow the bank's advic

Answer: B

Explanation:

While customer awareness will help mitigate the risks, this is insufficient on its own to control fraud risk. Implementing monitoring techniques which will detect and deal with potential fraud cases is the most effective way to deal with this risk. If the bank outsources its processing, the bank still retains liability. While making the customer liable for losses is a possible approach, nevertheless, the bank needs to be seen to be proactive in managing its risks.

NEW QUESTION 223
Which of the following would help management determine the resources needed to mitigate a risk to the organization?

A. Risk analysis process
B. Business impact analysis (BIA)
C. Risk management balanced scorecard
D. Risk-based audit program

Answer: B

Explanation:

The business impact analysis (BIA) determines the possible outcome of a risk and is essential to determine the appropriate cost of control. The risk analysis process provides comprehensive data, but does not determine definite resources to mitigate the risk as does the BIA. The risk management balanced scorecard is a measuring tool for goal attainment. A risk-based audit program is used to focus the audit process on the areas of greatest importance to the organization.

NEW QUESTION 224
Information security managers should use risk assessment techniques to:

A. justify selection of risk mitigation strategie
B. maximize the return on investment (RO
C. provide documentation for auditors and regulator
D. quantify risks that would otherwise be subjectiv

Answer: A

Explanation:

Information security managers should use risk assessment techniques to justify and implement a risk mitigation strategy as efficiently as possible. None of the other choices accomplishes that task, although they are important components.

NEW QUESTION 225
In a business impact analysis, the value of an information system should be based on the overall cost:

A. of recover
B. to recreat
C. if unavailabl
D. of emergency operation

Answer: C

Explanation:

The value of an information system should be based on the cost incurred if the system were to become unavailable. The cost to design or recreate the system is not as relevant since a business impact analysis measures the impact that would occur if an information system were to become unavailable. Similarly, the cost of emergency operations is not as relevant.

NEW QUESTION 226
When performing a qualitative risk analysis, which of the following will BEST produce reliable results?

A. Estimated productivity losses
B. Possible scenarios with threats and impacts
C. Value of information assets
D. Vulnerability assessment

Answer: B

Explanation:

Listing all possible scenarios that could occur, along with threats and impacts, will better frame the range of risks and facilitate a more informed discussion and decision. Estimated productivity losses, value of information assets and vulnerability assessments would not be sufficient on their own.

NEW QUESTION 231
Which of the following would BEST address the risk of data leakage?

A. File backup procedures
B. Database integrity checks
C. Acceptable use policies
D. Incident response procedures

Answer: C

Explanation:

Acceptable use policies are the best measure for preventing the unauthorized disclosure of confidential information. The other choices do not address confidentiality of information.

NEW QUESTION 236
Which of the following risks would BEST be assessed using quantitative risk assessment techniques?

A. Customer data stolen
B. An electrical power outage
C. A web site defaced by hackers
D. Loss of the software development team

Answer: B

Explanation:

The effect of the theft of customer data or web site defacement by hackers could lead to a permanent decline in customer confidence, which does not lend itself to measurement by quantitative techniques. Loss of a majority of the software development team could have similar unpredictable repercussions. However, the loss of electrical power for a short duration is more easily measurable and can be quantified into monetary amounts that can be assessed with quantitative techniques.

NEW QUESTION 238
Which of the following risks would BEST be assessed using qualitative risk assessment techniques?

A. Theft of purchased software
B. Power outage lasting 24 hours
C. Permanent decline in customer confidence
D. Temporary loss of e-mail due to a virus attack

Answer: C

Explanation:

A permanent decline in customer confidence does not lend itself well to measurement by quantitative techniques. Qualitative techniques are more effective in evaluating things such as customer loyalty and goodwill. Theft of software, power outages and temporary loss of e-mail can be quantified into monetary amounts easier than can be assessed with quantitative techniques.

NEW QUESTION 242
In assessing risk, it is MOST essential to:

A. provide equal coverage for all asset type
B. use benchmarking data from similar organization
C. consider both monetary value and likelihood of los
D. focus primarily on threats and recent business losse

Answer: C

Explanation:

A risk analysis should take into account the potential financial impact and likelihood of a loss. It should not weigh all potential losses evenly, nor should it focus primarily on recent losses or losses experienced by similar firms. Although this is important supplementary information, it does not reflect the organization's real situation. Geography and other factors come into play as well.

NEW QUESTION 246
A successful information security management program should use which of the following to determine the amount of resources devoted to mitigating exposures?

A. Risk analysis results
B. Audit report findings
C. Penetration test results
D. Amount of IT budget available

Answer: A

Explanation:

Risk analysis results are the most useful and complete source of information for determining the amount of resources to devote to mitigating exposures. Audit report findings may not address all risks and do not address annual loss frequency. Penetration test results provide only a limited view of exposures, while the IT budget is not tied to the exposures faced by the organization.

NEW QUESTION 250
Identification and prioritization of business risk enables project managers to:

A. establish implementation milestone
B. reduce the overall amount of slack tim
C. address areas with most significanc
D. accelerate completion of critical path

Answer: C

Explanation:

Identification and prioritization of risk allows project managers to focus more attention on areas of greater importance and impact. It will not reduce the overall amount of slack time, facilitate establishing implementation milestones or allow a critical path to be completed any sooner.

NEW QUESTION 254
An information security manager uses security metrics to measure the:

A. performance of the information security progra
B. performance of the security baselin
C. effectiveness of the security risk analysi
D. effectiveness of the incident response tea

Answer: A

Explanation:

The security metrics should be designed so that there is a relationship to the performance of the overall security program in terms of effectiveness measurement. Use of security metrics occurs after the risk assessment process and does not measure it. Measurement of the incident response team performance is included in the overall program performance, so this is an incomplete answer.

NEW QUESTION 256
Which of the following would be the BEST metric for the IT risk management process?

A. Number of risk management action plans
B. Percentage of critical assets with budgeted remedial
C. Percentage of unresolved risk exposures
D. Number of security incidents identified

Answer: B

Explanation:

Percentage of unresolved risk exposures and the number of security incidents identified contribute to the IT risk management process, but the percentage of critical assets with budgeted remedial is the most indicative metric. Number of risk management action plans is not useful for assessing the quality of the process.

NEW QUESTION 257
When a user employs a client-side digital certificate to authenticate to a web server through Secure Socket Layer (SSI.), confidentiality is MOST vulnerable to which of the following?

A. IP spoofing
B. Man-in-the-middle attack
C. Repudiation
D. Trojan

Answer: D

Explanation:

A Trojan is a program that gives the attacker full control over the infected computer, thus allowing the attacker to hijack, copy or alter information after authentication by the user. IP spoofing will not work because IP is not used as an authentication mechanism. Man-in-the-middle attacks are not possible if using SSL with client-side certificates. Repudiation is unlikely because client-side certificates authenticate the user.

NEW QUESTION 261
The BEST reason for an organization to have two discrete firewalls connected directly to the Internet and to the same DMZ would be to:

A. provide in-depth defens
B. separate test and productio
C. permit traffic load balancin
D. prevent a denial-of-service attac

Answer: C

Explanation:

Having two entry points, each guarded by a separate firewall, is desirable to permit traffic load balancing. As they both connect to the Internet and to the same demilitarized zone (DMZ), such an arrangement is not practical for separating test from production or preventing a denial-of-service attack.

NEW QUESTION 266
Which of the following is the MOST appropriate frequency for updating antivirus signature files for antivirus software on production servers?

A. Daily
B. Weekly
C. Concurrently with O/S patch updates
D. During scheduled change control updates

Answer: A

Explanation:

New viruses are being introduced almost daily. The effectiveness of virus detection software depends on frequent updates to its virus signatures, which are stored on antivirus signature files so updates may be carried out several times during the day. At a minimum, daily updating should occur. Patches may occur less frequently. Weekly updates may potentially allow new viruses to infect the system.

NEW QUESTION 270
When configuring a biometric access control system that protects a high-security data center, the system's sensitivity level should be set:

A. to u higher false reject rate (FRR).
B. to a lower crossover error rat
C. to a higher false acceptance rate (FAR).
D. exactly to the crossover error rat

Answer: A

Explanation:

Biometric access control systems are not infallible. When tuning the solution, one has to adjust the sensitivity level to give preference either to false reject rate (type I error rate) where the system will be more prone to err denying access to a valid user or erring and allowing access to an invalid user. As the sensitivity of

the biometric system is adjusted, these values change inversely. At one point, the two values intersect and are equal. This condition creates the crossover error rate, which is a measure of the system accuracy. In systems where the possibility of false rejects is a problem, it may be necessary' to reduce sensitivity and thereby increase the number of false accepts. This is sometimes referred to as equal error rate (EER). In a very sensitive system, it may be desirable to minimize the number of false accepts—the number of unauthorized persons allowed access. To do this, the system is tuned to be more sensitive, which causes the false rejects the number of authorized persons disallowed access to increase.

NEW QUESTION 272
Which of the following guarantees that data in a file have not changed?

A. Inspecting the modified date of the file
B. Encrypting the file with symmetric encryption
C. Using stringent access control to prevent unauthorized access
D. Creating a hash of the file, then comparing the file hashes

Answer: D

Explanation:

A hashing algorithm can be used to mathematically ensure that data haven't been changed by hashing a file and comparing the hashes after a suspected change.

NEW QUESTION 274
Which of the following controls would BEST prevent accidental system shutdown from the console or operations area?

A. Redundant power supplies
B. Protective switch covers
C. Shutdown alarms
D. Biometric readers

Answer: B

Explanation:

Protective switch covers would reduce the possibility of an individual accidentally pressing the power button on a device, thereby turning off the device. Redundant power supplies would not prevent an individual from powering down a device. Shutdown alarms would be after the fact. Biometric readers would be used to control access to the systems.

NEW QUESTION 278
Which of the following is the MOST important item to consider when evaluating products to monitor security across the enterprise?

A. Ease of installation
B. Product documentation
C. Available support
D. System overhead

Answer: D

Explanation:

Monitoring products can impose a significant impact ON system overhead for servers and networks. Product documentation, telephone support and ease of installation, while all important, would be secondary.

NEW QUESTION 279
When speaking to an organization's human resources department about information security, an information security manager should focus on the need for:

A. an adequate budget for the security progra
B. recruitment of technical IT employee
C. periodic risk assessment
D. security awareness training for employee

Answer: D

Explanation:

An information security manager has to impress upon the human resources department the need for security awareness training for all employees. Budget considerations are more of an accounting function. The human resources department would become involved once they are convinced for the need of security awareness training. Recruiting lT-savvy staff may bring in new employees with better awareness of information security, but that is not a replacement for the training requirements of the other employees. Periodic risk assessments may or may not involve the human resources department function.

NEW QUESTION 282
Which of the following security mechanisms is MOST effective in protecting classified data that have been encrypted to prevent disclosure and transmission outside the organization's network?

A. Configuration of firewalls
B. Strength of encryption algorithms
C. Authentication within application
D. Safeguards over keys

Answer:

D

Explanation:

If keys are in the wrong hands, documents will be able to be read regardless of where they are on the network. Choice A is incorrect because firewalls can be perfectly configured, but if the keys make it to the other side, they will not prevent the document from being decrypted. Choice B is incorrect because even easy encryption algorithms require adequate resources to break, whereas encryption keys can be easily used. Choice C is incorrect because the application "front door" controls may be bypassed by accessing data directly.

NEW QUESTION 285
Which of the following is MOST effective in preventing weaknesses from being introduced into existing production systems?

A. Patch management
B. Change management
C. Security baselines
D. Virus detection

Answer: B

Explanation:

Change management controls the process of introducing changes to systems. This is often the point at which a weakness will be introduced. Patch management involves the correction of software weaknesses and would necessarily follow change management procedures. Security baselines provide minimum recommended settings and do not prevent introduction of control weaknesses. Virus detection is an effective tool but primarily focuses on malicious code from external sources, and only for those applications that are online.

NEW QUESTION 289
An e-commerce order fulfillment web server should generally be placed on which of the following?

A. Internal network
B. Demilitarized zone (DMZ)
C. Database server
D. Domain controller

Answer: B

Explanation:

An e-commerce order fulfillment web server should be placed within a DMZ to protect it and the internal network from external attack. Placing it on the internal network would expose the internal network to potential attack from the Internet. Since a database server should reside on the internal network, the same exposure would exist. Domain controllers would not normally share the same physical device as a web server.

NEW QUESTION 293
What is the BEST defense against a Structured Query Language (SQL) injection attack?

A. Regularly updated signature files
B. A properly configured firewall
C. An intrusion detection system
D. Strict controls on input fields

Answer: D

Explanation:

Structured Query Language (SQL) injection involves the typing of programming command statements within a data entry field on a web page, usually with the intent of fooling the application into thinking that a valid password has been entered in the password entry field. The best defense against such an attack is to have strict edits on what can be typed into a data input field so that programming commands will be rejected. Code reviews should also be conducted to ensure that such edits are in place and that there are no inherent weaknesses in the way the code is written; software is available to test for such weaknesses. All other choices would fail to prevent such an attack.

NEW QUESTION 297
Which of the following is MOST effective in preventing security weaknesses in operating systems?

A. Patch management
B. Change management
C. Security baselines
D. Configuration management

Answer: A

Explanation:

Patch management corrects discovered weaknesses by applying a correction (a patch) to the original program code. Change management controls the process of introducing changes to systems. Security baselines provide minimum recommended settings. Configuration management controls the updates to the production environment.

NEW QUESTION 300

The advantage of Virtual Private Network (VPN) tunneling for remote users is that it:

A. helps ensure that communications are secur
B. increases security between multi-tier system
C. allows passwords to be changed less frequentl
D. eliminates the need for secondary authenticatio

Answer: A

Explanation:

Virtual Private Network (VPN) tunneling for remote users provides an encrypted link that helps ensure secure communications. It does not affect password change frequency, nor does it eliminate the need for secondary authentication or affect security within the internal network.

NEW QUESTION 305
Which of the following, using public key cryptography, ensures authentication, confidentiality and nonrepudiation of a message?

A. Encrypting first by receiver's private key and second by sender's public key
B. Encrypting first by sender's private key and second by receiver's public key
C. Encrypting first by sender's private key and second decrypting by sender's public key
D. Encrypting first by sender's public key and second by receiver's private key

Answer: B

Explanation:

Encrypting by the sender's private key ensures authentication. By being able to decrypt with the sender's public key, the receiver would know that the message is sent by the sender only and the sender cannot deny/repudiate the message. By encrypting with the sender's public key secondly, only the sender will be able to decrypt the message and confidentiality is assured. The receiver's private key is private to the receiver and the sender cannot have it for encryption. Similarly, the receiver will not have the private key of the sender to decrypt the second-level encryption. In the case of encrypting first by the sender's private key and. second, decrypting by the sender's public key, confidentiality is not ensured since the message can be decrypted by anyone using the sender's public key. The receiver's private key would not be available to the sender for second-level encryption. Similarly, the sender's private key would not be available to the receiver for decrypting the message.

NEW QUESTION 310
Which of the following is the MOST important consideration when securing customer credit card data acquired by a point-of-sale (POS) cash register?

A. Authentication
B. Hardening
C. Encryption
D. Nonrepudiation

Answer: C

Explanation:

Cardholder data should be encrypted using strong encryption techniques. Hardening would be secondary in importance, while nonrepudiation would not be as relevant. Authentication of the point-of-sale (POS) terminal is a previous step to acquiring the card information.

NEW QUESTION 311
Which of the following is the MOST important item to include when developing web hosting agreements with third-party providers?

A. Termination conditions
B. Liability limits
C. Service levels
D. Privacy restrictions

Answer: C

Explanation:

Service levels are key to holding third parties accountable for adequate delivery of services. This is more important than termination conditions, privacy restrictions or liability limitations.

NEW QUESTION 315
An extranet server should be placed:

A. outside the firewal
B. on the firewall serve
C. on a screened subne
D. on the external route

Answer: C

Explanation:

An extranet server should be placed on a screened subnet, which is a demilitarized zone (DMZ). Placing it on the Internet side of the firewall would leave it defenseless. The same would be true of placing it on the external router, although this would not be possible. Since firewalls should be installed on hardened

servers with minimal services enabled, it would be inappropriate to store the extranet on the same physical device.

NEW QUESTION 318
Which of the following is the BEST metric for evaluating the effectiveness of an intrusion detection mechanism?

A. Number of attacks detected
B. Number of successful attacks
C. Ratio of false positives to false negatives
D. Ratio of successful to unsuccessful attacks

Answer: C

Explanation:

The ratio of false positives to false negatives will indicate whether an intrusion detection system (IDS) is properly tuned to minimize the number of false alarms while, at the same time, minimizing the number of omissions. The number of attacks detected, successful attacks or the ratio of successful to unsuccessful attacks would not indicate whether the IDS is properly configured.

NEW QUESTION 322
The MOST important reason that statistical anomaly-based intrusion detection systems (slat IDSs) are less commonly used than signature-based IDSs, is that stat IDSs:

A. create more overhead than signature-based IDS
B. cause false positives from minor changes to system variable
C. generate false alarms from varying user or system action
D. cannot detect new types of attack

Answer: C

Explanation:

A statistical anomaly-based intrusion detection system (stat IDS) collects data from normal traffic and establishes a baseline. It then periodically samples the network activity based on statistical methods and compares samples to the baseline. When the activity is outside the baseline parameter (clipping level), the IDS notifies the administrator. The baseline variables can include a host's memory or central processing unit (CPU) usage, network packet types and packet quantities. If actions of the users or the systems on the network vary widely with periods of low activity and periods of frantic packet exchange, a stat IDS may not be suitable, as the dramatic swing from one level to another almost certainly will generate false alarms. This weakness will have the largest impact on the operation of the IT systems. Due to the nature of stat IDS operations (i.e., they must constantly attempt to match patterns of activity to the baseline parameters), a stat IDS requires much more overhead and processing than signature-based versions. Due to the nature of a stat IDS—based on statistics and comparing data with baseline parameters—this type of IDS may not detect minor changes to system variables and may generate many false positives. Choice D is incorrect; since the stat IDS can monitor multiple system variables, it can detect new types of variables by tracing for abnormal activity of any kind.

NEW QUESTION 326
In an organization, information systems security is the responsibility of:

A. all personne
B. information systems personne
C. information systems security personne
D. functional personne

Answer: A

Explanation:

All personnel of the organization have the responsibility of ensuring information systems security-this can include indirect personnel such as physical security personnel. Information systems security cannot be the responsibility of information systems personnel alone since they cannot ensure security. Information systems security cannot be the responsibility of information systems security personnel alone since they cannot ensure security. Information systems security cannot be the responsibility of functional personnel alone since they cannot ensure security.

NEW QUESTION 330
When considering the value of assets, which of the following would give the information security manager the MOST objective basis for measurement of value delivery in information security governance?

A. Number of controls
B. Cost of achieving control objectives
C. Effectiveness of controls
D. Test results of controls

Answer: B

Explanation:

Comparison of cost of achievement of control objectives and corresponding value of assets sought to be protected would provide a sound basis for the information security manager to measure value delivery. Number of controls has no correlation with the value of assets unless the effectiveness of the controls and their cost are also evaluated. Effectiveness of controls has no correlation with the value of assets unless their costs are also evaluated. Test results of controls have no correlation with the value of assets unless the effectiveness of the controls and their cost are also evaluated.

NEW QUESTION 334
When contracting with an outsourcer to provide security administration, the MOST important contractual element is the:

A. right-to-terminate claus
B. limitations of liabilit
C. service level agreement (SLA).
D. financial penalties claus

Answer: C

Explanation:

Service level agreements (SLAs) provide metrics to which outsourcing firms can be held accountable. This is more important than a limitation on the outsourcing firm's liability, a right-to-terminate clause or a hold- harmless agreement which involves liabilities to third parties.

NEW QUESTION 338
Which of the following is the BEST method for ensuring that security procedures and guidelines are known and understood?

A. Periodic focus group meetings
B. Periodic compliance reviews
C. Computer-based certification training (CBT)
D. Employee's signed acknowledgement

Answer: C

Explanation:

Using computer-based training (CBT) presentations with end-of-section reviews provides feedback on how well users understand what has been presented. Periodic compliance reviews are a good tool to identify problem areas but do not ensure that procedures are known or understood. Eocus groups may or may not provide meaningful detail. Although a signed employee acknowledgement is good, it does not indicate whether the material has been read and/or understood.

NEW QUESTION 343
Secure customer use of an e-commerce application can BEST be accomplished through:

A. data encryptio
B. digital signature
C. strong password
D. two-factor authenticatio

Answer: A

Explanation:

Encryption would be the preferred method of ensuring confidentiality in customer communications with an e-commerce application. Strong passwords, by themselves, would not be sufficient since the data could still be intercepted, while two-factor authentication would be impractical. Digital signatures would not provide a secure means of communication. In most business-to-customer (B-to-C) web applications, a digital signature is also not a practical solution.

NEW QUESTION 346
Which of the following is the BEST method to securely transfer a message?

A. Password-protected removable media
B. Facsimile transmission in a secured room
C. Using public key infrastructure (PKI) encryption
D. Steganography

Answer: C

Explanation:

Using public key infrastructure (PKI) is currently accepted as the most secure method to transmit e-mail messages. PKI assures confidentiality, integrity and nonrepudiation. The other choices are not methods that are as secure as PKI. Steganography involves hiding a message in an image.

NEW QUESTION 349
Which of the following BEST provides message integrity, sender identity authentication and nonrepudiation?

A. Symmetric cryptography
B. Public key infrastructure (PKI)
C. Message hashing
D. Message authentication code

Answer: B

Explanation:

Public key infrastructure (PKI) combines public key encryption with a trusted third party to publish and revoke digital certificates that contain the public key of the sender. Senders can digitally sign a message with their private key and attach their digital certificate (provided by the trusted third party). These characteristics allow senders to provide authentication, integrity validation and nonrepudiation. Symmetric cryptography provides confidentiality. Mashing can provide integrity and confidentiality. Message authentication codes provide integrity.

NEW QUESTION 351

Which of the following mechanisms is the MOST secure way to implement a secure wireless network?

A. Filter media access control (MAC) addresses
B. Use a Wi-Fi Protected Access (WPA2) protocol
C. Use a Wired Equivalent Privacy (WEP) key
D. Web-based authentication

Answer: B

Explanation:

WPA2 is currently one of the most secure authentication and encryption protocols for mainstream wireless products. MAC address filtering by itself is not a good security mechanism since allowed MAC addresses can be easily sniffed and then spoofed to get into the network. WEP is no longer a secure encryption mechanism for wireless communications. The WEP key can be easily broken within minutes using widely available software. And once the WEP key is obtained, all communications of every other wireless client are exposed. Finally, a web-based authentication mechanism can be used to prevent unauthorized user access to a network, but it will not solve the wireless network's main security issues, such as preventing network sniffing.

NEW QUESTION 356
Which of the following is the MOST important reason for an information security review of contracts? To help ensure that:

A. the parties to the agreement can perfor
B. confidential data are not included in the agreemen
C. appropriate controls are include
D. the right to audit is a requiremen

Answer: C

Explanation:

Agreements with external parties can expose an organization to information security risks that must be assessed and appropriately mitigated. The ability of the parties to perform is normally the responsibility of legal and the business operation involved. Confidential information may be in the agreement by necessity and. while the information security manager can advise and provide approaches to protect the information, the responsibility rests with the business and legal. Audit rights may be one of many possible controls to include in a third-party agreement, but is not necessarily a contract requirement, depending on the nature of the agreement.

NEW QUESTION 360
Which of the following technologies is utilized to ensure that an individual connecting to a corporate internal network over the Internet is not an intruder masquerading as an authorized user?

A. Intrusion detection system (IDS)
B. IP address packet filtering
C. Two-factor authentication
D. Embedded digital signature

Answer: C

Explanation:

Two-factor authentication provides an additional security mechanism over and above that provided by passwords alone. This is frequently used by mobile users needing to establish connectivity to a corporate network. IP address packet filtering would protect against spoofing an internal address but would not provide strong authentication. An intrusion detection system (IDS) can be used to detect an external attack but would not help in authenticating a user attempting to connect. Digital signatures ensure that transmitted information can be attributed to the named sender.

NEW QUESTION 365
Which of the following BEST ensures that information transmitted over the Internet will remain confidential?

A. Virtual private network (VPN)
B. Firewalls and routers
C. Biometric authentication
D. Two-factor authentication

Answer: A

Explanation:

Encryption of data in a virtual private network (VPN) ensures that transmitted information is not readable, even if intercepted. Firewalls and routers protect access to data resources inside the network and do not protect traffic in the public network. Biometric and two-factor authentication, by themselves, would not prevent a message from being intercepted and read.

NEW QUESTION 369
Which of the following devices should be placed within a DMZ?

A. Proxy server
B. Application server
C. Departmental server
D. Data warehouse server

Answer: B

Explanation:

An application server should normally be placed within a demilitarized zone (DMZ) to shield the internal network. Data warehouse and departmental servers may contain confidential or valuable data and should always be placed on the internal network, never on a DMZ that is subject to compromise. A proxy server forms the inner boundary of the DMZ but is not placed within it.

NEW QUESTION 372
In the process of deploying a new e-mail system, an information security manager would like to ensure the confidentiality of messages while in transit. Which of the following is the MOST appropriate method to ensure data confidentiality in a new e-mail system implementation?

A. Encryption
B. Digital certificate
C. Digital signature
D. I lashing algorithm

Answer: A

Explanation:

To preserve confidentiality of a message while in transit, encryption should be implemented. Choices B and C only help authenticate the sender and the receiver. Choice D ensures integrity.

NEW QUESTION 375
Good information security standards should:

A. define precise and unambiguous allowable limit
B. describe the process for communicating violation
C. address high-level objectives of the organizatio
D. be updated frequently as new software is release

Answer: A

Explanation:

A security standard should clearly state what is allowable; it should not change frequently. The process for communicating violations would be addressed by a security procedure, not a standard. High-level objectives of an organization would normally be addressed in a security policy.

NEW QUESTION 377
Which of the following activities is MOST likely to increase the difficulty of totally eradicating malicious code that is not immediately detected?

A. Applying patches
B. Changing access rules
C. Upgrading hardware
D. Backing up files

Answer: D

Explanation:

If malicious code is not immediately detected, it will most likely be backed up as a part of the normal tape backup process. When later discovered, the code may be eradicated from the device but still remain undetected ON a backup tape. Any subsequent restores using that tape may reintroduce the malicious code. Applying patches, changing access rules and upgrading hardware does not significantly increase the level of difficulty.

NEW QUESTION 381
What is the BEST way to ensure that contract programmers comply with organizational security policies?

A. Explicitly refer to contractors in the security standards
B. Have the contractors acknowledge in writing the security policies
C. Create penalties for noncompliance in the contracting agreement
D. Perform periodic security reviews of the contractors

Answer: D

Explanation:

Periodic reviews are the most effective way of obtaining compliance. None of the other options detects the failure of contract programmers to comply.

NEW QUESTION 386
The advantage of sending messages using steganographic techniques, as opposed to utilizing encryption, is that:

A. the existence of messages is unknow
B. required key sizes are smalle
C. traffic cannot be sniffe
D. reliability of the data is higher in transi

Answer: A

Explanation:

The existence of messages is hidden when using steganography. This is the greatest risk.
Keys are relevant for encryption and not for steganography. Sniffing of steganographic traffic is also possible. Option D is not relevant.

NEW QUESTION 391
Which would be the BEST recommendation to protect against phishing attacks?

A. Install an antispam system
B. Publish security guidance for customers
C. Provide security awareness to the organization's staff
D. Install an application-level firewall

Answer: B

Explanation:

Customers of the organization are the target of phishing attacks. Installing security software or training the organization's staff will be useless. The effort should be put on the customer side.

NEW QUESTION 395
Which of the following events generally has the highest information security impact?

A. Opening a new office
B. Merging with another organization
C. Relocating the data center
D. Rewiring the network

Answer: B

Explanation:

Merging with or acquiring another organization causes a major impact on an information security management function because new vulnerabilities and risks are inherited. Opening a new office, moving the data center to a new site, or rewiring a network may have information security risks, but generally comply with corporate security policy and are easier to secure.

NEW QUESTION 398
Which of the following is the BEST tool to maintain the currency and coverage of an information security program within an organization?

A. The program's governance oversight mechanisms
B. Information security periodicals and manuals
C. The program's security architecture and design
D. Training and certification of the information security team

Answer: A

Explanation:

While choices B, C and D will all assist the currency and coverage of the program, its governance oversight mechanisms are the best method.

NEW QUESTION 399
Which item would be the BEST to include in the information security awareness training program for new general staff employees?

A. Review of various security models
B. Discussion of how to construct strong passwords
C. Review of roles that have privileged access
D. Discussion of vulnerability assessment results

Answer: B

Explanation:

All new employees will need to understand techniques for the construction of strong passwords. The other choices would not be applicable to general staff employees.

NEW QUESTION 404
To reduce the possibility of service interruptions, an entity enters into contracts with multiple Internet service providers (ISPs). Which of the following would be the MOS T important item to include?

A. Service level agreements (SLAs)
B. Right to audit clause
C. Intrusion detection system (IDS) services
D. Spam filtering services

Answer: A

Explanation:

Service level agreements (QUESTION NO: As) will be most effective in ensuring that Internet service providers (ISPs) comply with expectations for service availability. Intrusion detection system (IDS) and spam filtering services would not mitigate (as directly) the potential for service interruptions. A right-to-audit clause would not be effective in mitigating the likelihood of a service interruption.

NEW QUESTION 409
What is the MAIN drawback of e-mailing password-protected zip files across the Internet? They:

A. all use weak encryptio
B. are decrypted by the firewal
C. may be quarantined by mail filter
D. may be corrupted by the receiving mail serve

Answer: C

Explanation:

Often, mail filters will quarantine zip files that are password-protected since the filter (or the firewall) is unable to determine if the file contains malicious code. Many zip file products are capable of using strong encryption. Such files are not normally corrupted by the sending mail server.

NEW QUESTION 411
An organization that outsourced its payroll processing performed an independent assessment of the security controls of the third party, per policy requirements. Which of the following is the MOST useful requirement to include in the contract?

A. Right to audit
B. Nondisclosure agreement
C. Proper firewall implementation
D. Dedicated security manager for monitoring compliance

Answer: A

Explanation:

Right to audit would be the most useful requirement since this would provide the company the ability to perform a security audit/assessment whenever there is a business need to examine whether the controls are working effectively at the third party. Options B, C and D are important requirements and can be examined during the audit. A dedicated security manager would be a costly solution and not always feasible for most situations.

NEW QUESTION 415
An organization plans to contract with an outside service provider to host its corporate web site. The MOST important concern for the information security manager is to ensure that:

A. an audit of the service provider uncovers no significant weaknes
B. the contract includes a nondisclosure agreement (NDA) to protect the organization's intellectual propert
C. the contract should mandate that the service provider will comply with security policie
D. the third-party service provider conducts regular penetration testin

Answer: C

Explanation:

It is critical to include the security requirements in the contract based ON the company's security policy to ensure that the necessary security controls are implemented by the service provider. The audit is normally a one-time effort and cannot provide ongoing assurance of the security. A nondisclosure agreement (NDA) should be part of the contract; however, it is not critical to the security of the web site. Penetration testing alone would not provide total security to the web site; there are lots of controls that cannot be tested through penetration testing.

NEW QUESTION 416
What is the MOST effective access control method to prevent users from sharing files with unauthorized users?

A. Mandatory
B. Discretionary
C. Walled garden
D. Role-based

Answer: A

Explanation:

Mandatory access controls restrict access to files based on the security classification of the file. This prevents users from sharing files with unauthorized users. Role-based access controls grant access according to the role assigned to a user; they do not prohibit file sharing. Discretionary and lattice-based access controls are not as effective as mandatory access controls in preventing file sharing. A walled garden is an environment that controls a user's access to web content and services. In effect, the walled garden directs the user's navigation within particular areas, and does not necessarily prevent sharing of other material.

NEW QUESTION 420
Which of the following is the BEST approach to mitigate online brute-force attacks on user accounts?

A. Passwords stored in encrypted form
B. User awareness
C. Strong passwords that are changed periodically

D. Implementation of lock-out policies

Answer: D

Explanation:

Implementation of account lock-out policies significantly inhibits brute-force attacks. In cases where this is not possible, strong passwords that are changed periodically would be an appropriate choice. Passwords stored in encrypted form w ill not defeat an online brute-force attack if the password itself is easily guessed. User awareness would help but is not the best approach of the options given.

NEW QUESTION 421
The PRIMARY focus of the change control process is to ensure that changes are:

A. authorize
B. applie
C. documente
D. teste

Answer: A

Explanation:

All steps in the change control process must be signed off on to ensure proper authorization. It is important that changes are applied, documented and tested; however, they are not the primary focus.

NEW QUESTION 426
Which of the following is the MOST likely outcome of a well-designed information security awareness course?

A. Increased reporting of security incidents to the incident response function
B. Decreased reporting of security incidents to the incident response function
C. Decrease in the number of password resets
D. Increase in the number of identified system vulnerabilities

Answer: A

Explanation:

A well-organized information security awareness course informs all employees of existing security policies, the importance of following safe practices for data security anil the need to report any possible security incidents to the appropriate individuals in the organization.
The other choices would not be the likely outcomes.

NEW QUESTION 431
Which of the following is the MOST appropriate method to protect a password that opens a confidential file?

A. Delivery path tracing
B. Reverse lookup translation
C. Out-of-band channels
D. Digital signatures

Answer: C

Explanation:

Out-of-band channels are useful when it is necessary, for confidentiality, to break a message into two parts that are then sent by different means. Digital signatures only provide nonrepudiation. Reverse lookup translation involves converting ;in Internet Protocol (IP) address to a username. Delivery path tracing shows the route taken but does not confirm the identity of the sender.

NEW QUESTION 435
Which of the following will BEST ensure that management takes ownership of the decision making process for information security?

A. Security policies and procedures
B. Annual self-assessment by management
C. Security- steering committees
D. Security awareness campaigns

Answer: C

Explanation:

Security steering committees provide a forum for management to express its opinion and take ownership in the decision making process. Security awareness campaigns, security policies and procedures, and self- assessment exercises are all good but do not exemplify the taking of ownership by management.

NEW QUESTION 438
In a well-controlled environment, which of the following activities is MOST likely to lead to the introduction of weaknesses in security software?

A. Applying patches
B. Changing access rules

C. Upgrading hardware
D. Backing up files

Answer: B

Explanation:

Security software will generally have a well-controlled process for applying patches, backing up files and upgrading hardware. The greatest risk occurs when access rules are changed since they are susceptible to being opened up too much, which can result in the creation of a security exposure.

NEW QUESTION 442
Who should determine the appropriate classification of accounting ledger data located on a database server and maintained by a database administrator in the IT department?

A. Database administrator (DBA)
B. Finance department management
C. Information security manager
D. IT department management

Answer: B

Explanation:

Data owners are responsible for determining data classification; in this case, management of the finance department would be the owners of accounting ledger data. The database administrator (DBA) and IT management are the custodians of the data who would apply the appropriate security levels for the classification, while the security manager would act as an advisor and enforcer.

NEW QUESTION 444
A major trading partner with access to the internal network is unwilling or unable to remediate serious information security exposures within its environment. Which of the following is the BEST recommendation?

A. Sign a legal agreement assigning them all liability for any breach
B. Remove all trading partner access until the situation improves
C. Set up firewall rules restricting network traffic from that location
D. Send periodic reminders advising them of their noncompliance

Answer: C

Explanation:

It is incumbent on an information security manager to see to the protection of their organization's network, but to do so in a manner that does not adversely affect the conduct of business. This can be accomplished by adding specific traffic restrictions for that particular location. Removing all access will likely result in lost business. Agreements and reminders do not protect the integrity of the network.

NEW QUESTION 445
An effective way of protecting applications against Structured Query Language (SQL) injection vulnerability is to:

A. validate and sanitize client side input
B. harden the database listener componen
C. normalize the database schema to the third normal for
D. ensure that the security patches are updated on operating system

Answer: A

Explanation:

SQL injection vulnerability arises when crafted or malformed user inputs are substituted directly in SQL queries, resulting into information leakage. Hardening the database listener does enhance the security of the database; however, it is unrelated to the SQL injection vulnerability. Normalization is related to the effectiveness and efficiency of the database but not to SQL injection vulnerability. SQL injections may also be observed in normalized databases. SQL injection vulnerability exploits the SQL query design, not the operating system.

NEW QUESTION 449
What is the BEST way to ensure users comply with organizational security requirements for password complexity?

A. Include password construction requirements in the security standards
B. Require each user to acknowledge the password requirements
C. Implement strict penalties for user noncompliance
D. Enable system-enforced password configuration

Answer: D

Explanation:

Automated controls are generally more effective in preventing improper actions. Policies and standards provide some deterrence, but are not as effective as automated controls.

NEW QUESTION 452

A benefit of using a full disclosure (white box) approach as compared to a blind (black box) approach to penetration testing is that:

A. it simulates the real-1ife situation of an external security attac
B. human intervention is not required for this type of tes
C. less time is spent on reconnaissance and information gatherin
D. critical infrastructure information is not revealed to the teste

Answer: C

Explanation:

Data and information required for penetration are shared with the testers, thus eliminating time that would otherwise have been spent on reconnaissance and gathering of information. Blind (black box) penetration testing is closer to real life than full disclosure (white box) testing. There is no evidence to support that human intervention is not required for this type of test. A full disclosure (white box) methodology requires the knowledge of the subject being tested.

NEW QUESTION 453
Which of the following is the MOST important action to take when engaging third-party consultants to conduct an attack and penetration test?

A. Request a list of the software to be used
B. Provide clear directions to IT staff
C. Monitor intrusion detection system (IDS) and firewall logs closely
D. Establish clear rules of engagement

Answer: D

Explanation:

It is critical to establish a clear understanding on what is permissible during the engagement. Otherwise, the tester may inadvertently trigger a system outage or inadvertently corrupt files. Not as important, but still useful, is to request a list of what software will be used. As for monitoring the intrusion detection system (IDS) and firewall, and providing directions to IT staff, it is better not to alert those responsible for monitoring (other than at the management level), so that the effectiveness of that monitoring can be accurately assessed.

NEW QUESTION 456
An organization has implemented an enterprise resource planning (ERP) system used by 500 employees from various departments. Which of the following access control approaches is MOST appropriate?

A. Rule-based
B. Mandatory
C. Discretionary
D. Role-based

Answer: D

Explanation:

Role-based access control is effective and efficient in large user communities because it controls system access by the roles defined for groups of users. Users are assigned to the various roles and the system controls the access based on those roles. Rule-based access control needs to define the access rules, which is troublesome and error prone in large organizations. In mandatory access control, the individual's access to information resources needs to be defined, which is troublesome in large organizations. In discretionary access control, users have access to resources based on predefined sets of principles, which is an inherently insecure approach.

NEW QUESTION 460
Which of the following measures is the MOST effective deterrent against disgruntled stall abusing their privileges?

A. Layered defense strategy
B. System audit log monitoring
C. Signed acceptable use policy
D. High-availability systems

Answer: C

Explanation:

A layered defense strategy would only prevent those activities that are outside of the user's privileges. A signed acceptable use policy is often an effective deterrent against malicious activities because of the potential for termination of employment and/or legal actions being taken against the individual. System audit log monitoring is after the fact and may not be effective. High-availability systems have high costs and are not always feasible for all devices and components or systems.

NEW QUESTION 461
Managing the life cycle of a digital certificate is a role of a(n):

A. system administrato
B. security administrato
C. system develope
D. independent trusted sourc

Answer: D

Explanation:

Digital certificates must be managed by an independent trusted source in order to maintain trust in their authenticity. The other options are not necessarily entrusted with this capability.

NEW QUESTION 462
The root cause of a successful cross site request forgery (XSRF) attack against an application is that the vulnerable application:

A. uses multiple redirects for completing a data commit transactio
B. has implemented cookies as the sole authentication mechanis
C. has been installed with a non-1egitimate license ke
D. is hosted on a server along with other application

Answer: B

Explanation:

XSRF exploits inadequate authentication mechanisms in web applications that rely only on elements such as cookies when performing a transaction. XSRF is related to an authentication mechanism, not to redirection. Option C is related to intellectual property rights, not to XSRF vulnerability. Merely hosting multiple applications on the same server is not the root cause of this vulnerability.

NEW QUESTION 463
Which of the following will BEST prevent an employee from using a USB drive to copy files from desktop computers?

A. Restrict the available drive allocation on all PCs
B. Disable universal serial bus (USB) ports on all desktop devices
C. Conduct frequent awareness training with noncompliance penalties
D. Establish strict access controls to sensitive information

Answer: A

Explanation:

Restricting the ability of a PC to allocate new drive letters ensures that universal serial bus (USB) drives or even CD-writers cannot be attached as they would not be recognized by the operating system. Disabling USB ports on all machines is not practical since mice and other peripherals depend on these connections. Awareness training and sanctions do not prevent copying of information nor do access controls.

NEW QUESTION 465
Which of the following BEST ensures that security risks will be reevaluated when modifications in application developments are made?

A. A problem management process
B. Background screening
C. A change control process
D. Business impact analysis (BIA)

Answer: C

Explanation:

A change control process is the methodology that ensures that anything that could be impacted by a development change will be reevaluated. Problem management is the general process intended to manage all problems, not those specifically related to security. Background screening is the process to evaluate employee references when they are hired. BIA is the methodology used to evaluate risks in the business continuity process.

NEW QUESTION 466
Successful social engineering attacks can BEST be prevented through:

A. preemployment screenin
B. close monitoring of users' access pattern
C. periodic awareness trainin
D. efficient termination procedure

Answer: C

Explanation:

Security awareness training is most effective in preventing the success of social engineering attacks by providing users with the awareness they need to resist such attacks. Screening of new employees, monitoring and rapid termination will not be effective against external attacks.

NEW QUESTION 469
Which of the following is the MOST likely to change an organization's culture to one that is more security conscious?

A. Adequate security policies and procedures
B. Periodic compliance reviews
C. Security steering committees
D. Security awareness campaigns

Answer: D

Explanation:

Security awareness campaigns will be more effective at changing an organizational culture than the creation of steering committees and security policies and procedures. Compliance reviews are helpful; however, awareness by all staff is more effective because compliance reviews are focused on certain areas groups and do not necessarily educate.

NEW QUESTION 472
What is the GREATEST advantage of documented guidelines and operating procedures from a security perspective?

A. Provide detailed instructions on how to carry out different types of tasks
B. Ensure consistency of activities to provide a more stable environment
C. Ensure compliance to security standards and regulatory requirements
D. Ensure reusability to meet compliance to quality requirements

Answer: B

Explanation:

Developing procedures and guidelines to ensure that business processes address information security risk is critical to the management of an information security program. Developing procedures and guidelines establishes a baseline for security program performance and consistency of security activities.

NEW QUESTION 473
Which of the following represents a PRIMARY area of interest when conducting a penetration test?

A. Data mining
B. Network mapping
C. Intrusion Detection System (IDS)
D. Customer data

Answer: B

Explanation:

Network mapping is the process of determining the topology of the network one wishes to penetrate. This is one of the first steps toward determining points of attack in a network. Data mining is associated with ad hoc reporting and. together with customer data, they are potential targets after the network is penetrated. The intrusion detection mechanism in place is not an area of focus because one of the objectives is to determine how effectively it protects the network or how easy it is to circumvent.

NEW QUESTION 476
The BEST way to ensure that security settings on each platform are in compliance with information security policies and procedures is to:

A. perform penetration testin
B. establish security baseline
C. implement vendor default setting
D. link policies to an independent standar

Answer: B

Explanation:

Security baselines will provide the best assurance that each platform meets minimum criteria. Penetration testing will not be as effective and can only be performed periodically. Vendor default settings will not necessarily meet the criteria set by the security policies, while linking policies to an independent standard will not provide assurance that the platforms meet these levels of security.

NEW QUESTION 478
What is the MOS T cost-effective means of improving security awareness of staff personnel?

A. Employee monetary incentives
B. User education and training
C. A zero-tolerance security policy
D. Reporting of security infractions

Answer: B

Explanation:

User education and training is the most cost-effective means of influencing staff to improve security since personnel are the weakest link in security. Incentives perform poorly without user education and training. A zero-tolerance security policy would not be as good as education and training. Users would not have the knowledge to accurately interpret and report violations without user education and training.

NEW QUESTION 481
There is reason to believe that a recently modified web application has allowed unauthorized access. Which is the BEST way to identify an application backdoor?

A. Black box pen test
B. Security audit
C. Source code review
D. Vulnerability scan

Answer: C

Explanation:

Source code review is the best way to find and remove an application backdoor. Application backdoors can be almost impossible to identify' using a black box pen test or a security audit. A vulnerability scan will only find "known" vulnerability patterns and will therefore not find a programmer's application backdoor.

NEW QUESTION 485
Which of the following will BEST protect against malicious activity by a former employee?

A. Preemployment screening
B. Close monitoring of users
C. Periodic awareness training
D. Effective termination procedures

Answer: D

Explanation:

When an employee leaves an organization, the former employee may attempt to use their credentials to perform unauthorized or malicious activity. Accordingly, it is important to ensure timely revocation of all access at the time an individual is terminated. Security awareness training, preemployment screening and monitoring are all important, but are not as effective in preventing this type of situation.

NEW QUESTION 489
A security awareness program should:

A. present top management's perspectiv
B. address details on specific exploit
C. address specific groups and role
D. promote security department procedure

Answer: C

Explanation:

Different groups of employees have different levels of technical understanding and need awareness training that is customized to their needs; it should not be presented from a specific perspective. Specific details on technical exploits should be avoided since this may provide individuals with knowledge they might misuse or it may confuse the audience. This is also not the best forum in which to present security department procedures.

NEW QUESTION 493
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