

(ISC)²



Certified Secure Software Lifecycle Professional



EXAMKILLER

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Total Question: 349 QAs

Question No: 1

You work as a Network Auditor for Net Perfect Inc. The company has a Windows-based network. While auditing the company's network, you are facing problems in searching the faults and other entities that belong to it. Which of the following risks may occur due to the existence of these problems?

- A. Residual risk
- B. Secondary risk
- C. Detection risk
- D. Inherent risk

Answer: C

Explanation: Detection risks are the risks that an auditor will not be able to find what they are looking to detect. Hence, it becomes tedious to report negative results when material conditions (faults) actually exist. Detection risk includes two types of risk: Sampling risk: This risk occurs when an auditor falsely accepts or erroneously rejects an audit sample. Nonsampling risk: This risk occurs when an auditor fails to detect a condition because of not applying the appropriate procedure or using procedures inconsistent with the audit objectives (detection faults). Answer: A is incorrect. Residual risk is the risk or danger of an action or an event, a method or a (technical) process that, although being abreast with science, still conceives these dangers, even if all theoretically possible safety measures would be applied (scientifically conceivable measures). The formula to calculate residual risk is (inherent risk) x (control risk) where inherent risk is (threats vulnerability). In the economic context, residual means "the quantity left over at the end of a process; a remainder". Answer: D is incorrect. Inherent risk, in auditing, is the risk that the account or section being audited is materially misstated without considering internal controls due to error or fraud. The assessment of inherent risk depends on the professional judgment of the auditor, and it is done after assessing the business environment of the entity being audited. Answer: B is incorrect. A secondary risk is a risk that arises as a straight consequence of implementing a risk response. The secondary risk is an outcome of dealing with the original risk. Secondary risks are not as rigorous or important as primary risks, but can turn out to be so if not estimated and planned properly.

Question No: 2

The National Information Assurance Certification and Accreditation Process (NIACAP) is the minimum standard process for the certification and accreditation of computer and telecommunications systems that handle U.S. national security information. Which of the following participants are required in a NIACAP security assessment? Each correct answer represents a part of the solution. Choose all that apply.

- A. Certification agent
- B. Designated Approving Authority
- C. IS program manager
- D. Information Assurance Manager

E. User representative

Answer: A,B,C,E

Explanation: The NIACAP roles are nearly the same as the DITSCAP roles. Four minimum participants (roles) are required to perform a NIACAP security assessment: IS program manager: The IS program manager is the

primary authorization advocate. He is responsible for the Information Systems (IS) throughout the life cycle of the system development. Designated Approving Authority (DAA): The Designated Approving Authority (DAA), in the United States Department of Defense, is the official with the authority to formally assume responsibility for operating a system at an acceptable level of risk. Certification agent: The certification agent is also referred to as the certifier. He provides the technical expertise to conduct the certification throughout the system life cycle. User representative: The user representative focuses on system availability, access, integrity, functionality, performance, and confidentiality in a Certification and Accreditation (C&A) process. Answer: D is incorrect. Information Assurance Manager (IAM) is one of the key participants in the DIACAP process.

Question No: 3 DRAG DROP

Drop the appropriate value to complete the formula.

Single Loss Expectancy = Asset Value (\$) X Placeholder

Exposure Factor (EF) Annualized Loss Expectancy (ALE)

Annualized Rate of Occurrence (ARO)

Answer:

Single Loss Expectancy = Asset Value (\$) X Exposure Factor (EF)

Exposure Factor (EF) Annualized Loss Expectancy (ALE)

Annualized Rate of Occurrence (ARO)

Explanation: A Single Loss Expectancy (SLE) is the value in dollar (\$) that is assigned to a single event. The SLE can be calculated by the following formula: SLE = Asset Value (\$) X Exposure Factor (EF) The Exposure Factor (EF) represents the % of assets loss caused by a threat. The EF is required to calculate the Single Loss Expectancy (SLE). The Annualized Loss Expectancy (ALE) can be calculated by multiplying the Single Loss Expectancy (SLE) with the Annualized Rate of Occurrence (ARO). Annualized Loss Expectancy (ALE) = Single Loss Expectancy (SLE) X Annualized Rate of Occurrence (ARO) Annualized Rate of Occurrence (ARO) is a number that represents the estimated frequency in which a threat is expected to occur. It is calculated based upon the probability of the event occurring and the number of employees that could make that event occur.

Question No: 4

Which of the following penetration testing techniques automatically tests every phone line in an exchange and tries to locate modems that are attached to the network?

- A. Demon dialing
- B. Sniffing
- C. Social engineering
- D. Dumpster diving

Answer: A

Explanation: The demon dialing technique automatically tests every phone line in an exchange and tries to locate modems that are attached to the network. Information about these modems can then be used to

attempt external unauthorized access. Answer: B is incorrect. In sniffing, a protocol analyzer is used to capture data packets that are later decoded to collect information such as passwords or infrastructure configurations. Answer: D is incorrect. Dumpster diving technique is used for searching paper disposal areas for unshredded or otherwise improperly disposed-of reports. Answer: C is incorrect. Social engineering is the most commonly used technique of all, getting information (like passwords) just by asking for them.

Question No: 5

Which of the following roles is also known as the accreditor?

- A. Data owner
- B. Chief Risk Officer
- C. Chief Information Officer
- D. Designated Approving Authority

Answer: D

Explanation: Designated Approving Authority (DAA) is also known as the accreditor. Answer: A is incorrect. The data owner (information owner) is usually a member of management, in charge of a specific business unit, and is ultimately responsible for the protection and use of a specific subset of information. Answer: B is incorrect. A Chief Risk Officer (CRO) is also known as Chief Risk Management Officer (CRMO). The Chief Risk Officer or Chief Risk Management Officer of a corporation is the executive accountable for enabling the efficient and effective governance of significant risks, and related opportunities, to a business and its various segments. Risks are commonly categorized as strategic, reputational, operational, financial, or compliance-related. CRO's are accountable to the Executive Committee and The Board for enabling the business to balance risk and reward. In more complex organizations, they are generally responsible for coordinating the organization's Enterprise Risk Management (ERM) approach. Answer: C is incorrect. The Chief Information Officer (CIO), or Information Technology (IT) director, is a job title commonly given to the most senior executive in an enterprise responsible for the information technology and computer systems that support enterprise goals. The CIO plays the role of a leader and reports to the chief executive officer, chief operations officer, or chief financial officer. In military organizations, they report to the commanding officer.

Question No: 6

DoD 8500.2 establishes IA controls for information systems according to the Mission Assurance Categories (MAC) and confidentiality levels. Which of the following MAC levels requires high integrity and medium availability?

- A. MAC III
- B. MAC IV
- C. MAC I
- D. MAC II

Answer: D

Explanation: The various MAC levels are as follows: MAC I: It states that the systems have high availability and high integrity. MAC II: It states that the systems have high integrity and medium availability. MAC III: It states that the systems have basic integrity and availability.

Question No: 7

Microsoft software security expert Michael Howard defines some heuristics for determining code review in "A Process for Performing Security Code Reviews". Which of the following heuristics increase the application's

attack surface? Each correct answer represents a complete solution. Choose all that apply.

- A. Code written in C/C++/assembly language
- B. Code listening on a globally accessible network interface
- C. Code that changes frequently
- D. Anonymously accessible code

- E. Code that runs by default

- F. Code that runs in elevated context

Answer: B,D,E,F

Explanation: Microsoft software security expert Michael Howard defines the following heuristics for determining code review in "A Process for Performing Security Code Reviews": Old code: Newer code provides better understanding of software security and has lesser number of vulnerabilities. Older code must be checked deeply. Code that runs by default: It must have high quality, and must be checked deeply than code that does not execute by default. Code that runs by default increases the application's attack surface. Code that runs in elevated context: It must have higher quality. Code that runs in elevated privileges must be checked deeply and increases the application's attack surface. Anonymously accessible code: It must be checked deeply than code that only authorized users and administrators can access, and it increases the application's attack surface. Code listening on a globally accessible network interface: It must be checked deeply for security vulnerabilities and increases the application's attack surface. Code written in C/C++/assembly language: It is prone to security vulnerabilities, for example, buffer overruns. Code with a history of security vulnerabilities: It includes additional vulnerabilities except concerted efforts that are required for removing them. Code that handles sensitive data: It must be checked deeply to ensure that data is protected from unintentional disclosure. Complex code: It includes undiscovered errors because it is more difficult to analyze complex code manually and programmatically. Code that changes frequently: It has more security vulnerabilities than code that does not change frequently.

Question No: 8

Which of the following cryptographic system services ensures that information will not be disclosed to any unauthorized person on a local network?

- A. Authentication
- B. Integrity
- C. Non-repudiation
- D. Confidentiality

Answer: D

Explanation: The confidentiality service of a cryptographic system ensures that information will not be disclosed to any unauthorized person on a local network.

Question No: 9

What are the various activities performed in the planning phase of the Software Assurance Acquisition process? Each correct answer represents a complete solution. Choose all that apply.

- A. Develop software requirements.
- B. Implement change control procedures.
- C. Develop evaluation criteria and evaluation plan.

D. Create acquisition strategy.

Answer: A,C,D

Explanation: The various activities performed in the planning phase of the Software Assurance Acquisition process are as follows: Determine software product or service requirements. Identify associated risks. Develop software requirements. Create acquisition strategy. Develop evaluation criteria and evaluation plan. Define development and use of SwA due diligence questionnaires. Answer: B is incorrect. This activity is performed in the monitoring and acceptance phase of the Software Assurance acquisition process.

Question No: 10

You work as a project manager for BlueWell Inc. You are working on a project and the management wants a rapid and cost-effective means for establishing priorities for planning risk responses in your project. Which risk management process can satisfy management's objective for your project?

A. Qualitative risk analysis

B. Historical information

C. Rolling wave planning

D. Quantitative analysis

Answer: A

Explanation: Qualitative risk analysis is the best answer as it is a fast and low-cost approach to analyze the risk impact and its effect. It can promote certain risks onto risk response planning. Qualitative Risk Analysis uses the likelihood and impact of the identified risks in a fast and cost-effective manner. Qualitative Risk Analysis establishes a basis for a focused quantitative analysis or Risk Response Plan by evaluating the precedence of risks with a concern to impact on the project's scope, cost, schedule, and quality objectives. The qualitative risk analysis is conducted at any point in a project life cycle. The primary goal of qualitative risk analysis is to determine proportion of effect and theoretical response. The inputs to the Qualitative Risk Analysis process are: Organizational process assets Project Scope Statement Risk Management Plan Risk Register Answer: B is incorrect. Historical information can be helpful in the qualitative risk analysis, but it is not the best answer for the question as historical information is not always available (consider new projects). Answer: D is incorrect. Quantitative risk analysis is in-depth and often requires a schedule and budget for the analysis. Answer: C is incorrect. Rolling wave planning is not a valid answer for risk analysis processes.

Question No: 11

Which of the following models uses a directed graph to specify the rights that a subject can transfer to an object or that a subject can take from another subject?

A. Take-Grant Protection Model

B. Biba Integrity Model

C. Bell-LaPadula Model

D. Access Matrix

Answer: A

Explanation: The take-grant protection model is a formal model used in the field of computer security to establish or disprove the safety of a given computer system that follows specific rules. It shows that for specific systems the question of safety is decidable in linear time, which is in general undecidable. The model represents a system as directed graph, where vertices are either subjects or objects. The edges between them are labeled and the label indicates the rights that the source of the edge has over the destination. Two rights occur in every instance of the model: take and grant. They play a special role in the graph rewriting rules

describing admissible changes of the graph. Answer: D is incorrect. The access matrix is a straightforward approach that provides access rights to subjects for objects. Answer: C is incorrect. The Bell-LaPadula model deals only with the confidentiality of classified material. It does not address integrity or availability. Answer: B is incorrect. The integrity model was developed as an analog to the Bell-LaPadula confidentiality model and then became more sophisticated to address additional integrity requirements.

Question No: 12

You are the project manager for GHY Project and are working to create a risk response for a negative risk. You and the project team have identified the risk that the project may not complete on time, as required by the management, due to the creation of the user guide for the software you're creating. You have elected to hire an external writer in order to satisfy the requirements and to alleviate the risk event. What type of risk response have you elected to use in this instance?

- A. Transference
- B. Exploiting
- C. Avoidance
- D. Sharing

Answer: A

Explanation: This is an example of transference as you have transferred the risk to a third party. Transference almost always is done with a negative risk event and it usually requires a contractual relationship.

Question No: 13

Which of the following organizations assists the President in overseeing the preparation of the federal budget and to supervise its administration in Executive Branch agencies?

- A. OMB
- B. NIST
- C. NSA/CSS
- D. DCAA

Answer: A

Explanation: The Office of Management and Budget (OMB) is a Cabinet-level office, and is the largest office within the Executive Office of the President (EOP) of the United States. The current OMB Director is Peter Orszag and was appointed by President Barack Obama. The OMB's predominant mission is to assist the President in overseeing the preparation of the federal budget and to supervise its administration in Executive Branch agencies. In helping to formulate the President's spending plans, the OMB evaluates the effectiveness of agency programs, policies, and procedures, assesses competing funding demands among agencies, and sets funding priorities. The OMB ensures that agency reports, rules, testimony, and proposed legislation are consistent with the President's Budget and with Administration policies. Answer: D is incorrect. The DCAA has the aim to monitor contractor costs and perform contractor audits. Answer: C is incorrect. The National Security Agency/Central Security Service (NSA/CSS) is a crypto-logic intelligence agency of the United States government. It is administered as part of the United States Department of Defense. NSA is responsible for the collection and analysis of foreign communications and foreign signals intelligence, which involves cryptanalysis. NSA is also responsible for protecting U.S. government communications and information systems from similar agencies elsewhere, which involves cryptography. NSA is a key component of the U.S. Intelligence Community, which is headed by the Director of National Intelligence. The Central Security Service is a co-located agency created to coordinate intelligence activities and co-operation between NSA and U.S.

military cryptanalysis agencies. NSA's work is limited to communications intelligence. It does not perform field or human intelligence activities. Answer: B is incorrect. The National Institute of Standards and Technology (NIST), known between 1901 and 1988 as the National Bureau of Standards (NBS), is a measurement standards laboratory which is a non-regulatory agency of the United States Department of Commerce. The institute's official mission is to promote U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology in ways that enhance economic security and improve quality of life.

Question No: 14

Part of your change management plan details what should happen in the change control system for your project. Theresa, a junior project manager, asks what the configuration management activities are for scope changes. You tell her that all of the following are valid configuration management activities except for which one?

- A. Configuration Identification
- B. Configuration Verification and Auditing
- C. Configuration Status Accounting
- D. Configuration Item Costing

Answer: D

Explanation: Configuration item cost is not a valid activity for configuration management. Cost changes are managed by the cost change control system; configuration management is concerned with changes to the features and functions of the project deliverables.

Question No: 15

Which of the following types of redundancy prevents attacks in which an attacker can get physical control of a machine, insert unauthorized software, and alter data?

- A. Data redundancy
- B. Hardware redundancy
- C. Process redundancy
- D. Application redundancy

Answer: C

Explanation: Process redundancy permits software to run simultaneously on multiple geographically distributed locations, with voting on results. It prevents attacks in which an attacker can get physical control of a machine, insert unauthorized software, and alter data.

Question No: 16

Which of the following individuals inspects whether the security policies, standards, guidelines, and procedures are efficiently performed in accordance with the company's stated security objectives?

- A. Information system security professional
- B. Data owner
- C. Senior management
- D. Information system auditor

Answer: D

Explanation: An information system auditor is an individual who inspects whether the security policies, standards, guidelines, and procedures are efficiently performed in accordance with the company's stated security objectives. He is responsible for reporting the senior management about the value of security controls

by performing regular and independent audits. Answer: B is incorrect. A data owner determines the sensitivity or classification levels of data. Answer: A is incorrect. An informational systems security professional is an individual who designs, implements, manages, and reviews the security policies, standards, guidelines, and procedures of the organization. He is responsible to implement and maintain security by the senior-level management. Answer: C is incorrect. A senior management assigns overall responsibilities to other individuals.

Question No: 17

Which of the following process areas does the SSE-CMM define in the 'Project and Organizational Practices' category? Each correct answer represents a complete solution. Choose all that apply.

- A. Provide Ongoing Skills and Knowledge
- B. Verify and Validate Security
- C. Manage Project Risk
- D. Improve Organization's System Engineering Process

Answer: A,C,D

Explanation: Project and Organizational Practices include the following process areas: PA12: Ensure Quality PA13: Manage Configuration PA14: Manage Project Risk PA15: Monitor and Control Technical Effort PA16: Plan Technical Effort PA17: Define Organization's System Engineering Process PA18: Improve Organization's System Engineering Process PA19: Manage Product Line Evolution PA20: Manage Systems Engineering Support Environment PA21: Provide Ongoing Skills and Knowledge PA22: Coordinate with Suppliers

Question No: 18

The LeGrand Vulnerability-Oriented Risk Management method is based on vulnerability analysis and consists of four principle steps. Which of the following processes does the risk assessment step include? Each correct answer represents a part of the solution. Choose all that apply.

- A. Remediation of a particular vulnerability
- B. Cost-benefit examination of countermeasures
- C. Identification of vulnerabilities
- D. Assessment of attacks

Answer: B,C,D

Explanation: Risk assessment includes identification of vulnerabilities, assessment of losses caused by threats materialized, cost-benefit examination of countermeasures, and assessment of attacks. Answer: A is incorrect. This process is included in the vulnerability management.

Question No: 19

You work as a Security Manager for Tech Perfect Inc. You have set up a SIEM server for the following purposes: Analyze the data from different log sources Correlate the events among the log entries Identify and prioritize significant events Initiate responses to events if required One of your log monitoring staff wants to know the features of SIEM product that will help them in these purposes. What features will you recommend? Each correct answer represents a complete solution. Choose all that apply.

- A. Asset information storage and correlation
- B. Transmission confidentiality protection
- C. Incident tracking and reporting
- D. Security knowledge base

E. Graphical user interface

Answer: A,C,D,E

Explanation: The features of SIEM products are as follows: Graphical user interface (GUI): It is used in analysis for identifying potential problems and reviewing all available data that are associated with the problems. Security knowledge base: It includes information on known vulnerabilities, log messages, and other technical data. Incident tracking and hacking: It has robust workflow features to track and report incidents. Asset information storage and correlation: It gives higher priority to an attack that affects a vulnerable OS or a main host. Answer: B is incorrect. SIEM product does not have this feature.

Question No: 20

According to U.S. Department of Defense (DoD) Instruction 8500.2, there are eight Information Assurance (IA) areas, and the controls are referred to as IA controls. Which of the following are among the eight areas of IA defined by DoD? Each correct answer represents a complete solution. Choose all that apply.

- A. VI Vulnerability and Incident Management
- B. Information systems acquisition, development, and maintenance
- C. DC Security Design & Configuration
- D. EC Enclave and Computing Environment

Answer: A,C,D

Explanation: According to U.S. Department of Defense (DoD) Instruction 8500.2, there are eight Information Assurance (IA) areas, and the controls are referred to as IA controls. Following are the various U.S. Department of Defense information security standards: DC Security Design & Configuration IA Identification and Authentication EC Enclave and Computing Environment EB Enclave Boundary Defense PE Physical and Environmental PR Personnel CO Continuity VI Vulnerability and Incident Management Answer: B is incorrect. Business continuity management is an International information security standard.

Question No: 21

The Information System Security Officer (ISSO) and Information System Security Engineer (ISSE) play the role of a supporter and advisor, respectively. Which of the following statements are true about ISSO and ISSE? Each correct answer represents a complete solution. Choose all that apply.

- A. An ISSE manages the security of the information system that is slated for Certification & Accreditation (C&A).
- B. An ISSE provides advice on the continuous monitoring of the information system.
- C. An ISSO manages the security of the information system that is slated for Certification & Accreditation (C&A).
- D. An ISSE provides advice on the impacts of system changes. E. An ISSO takes part in the development activities that are required to implement system changes.

Answer: B,C,D

Explanation: An Information System Security Officer (ISSO) plays the role of a supporter. The responsibilities of an Information System Security Officer (ISSO) are as follows: Manages the security of the information system that is slated for Certification & Accreditation (C&A). Insures the information systems configuration with the agency's information security policy. Supports the information system owner/information owner for the completion of security-related responsibilities. Takes part in the formal configuration management process. Prepares Certification & Accreditation (C&A) packages. An Information System Security Engineer (ISSE) plays the role of an advisor. The responsibilities of an Information System Security Engineer are as follows: Provides

view on the continuous monitoring of the information system. Provides advice on the impacts of system changes. Takes part in the configuration management process. Takes part in the development activities that are required to implement system changes. Follows approved system changes.

Question No: 22

In which of the following types of tests are the disaster recovery checklists distributed to the members of disaster recovery team and asked to review the assigned checklist?

- A. Parallel test
- B. Simulation test
- C. Full-interruption test
- D. Checklist test

Answer: D

Explanation: A checklist test is a test in which the disaster recovery checklists are distributed to the members of the disaster recovery team. All members are asked to review the assigned checklist. The checklist test is a simple test and it is easy to conduct this test. It allows to accomplish the following three goals: It ensures that the employees are aware of their responsibilities and they have the refreshed knowledge. It provides an individual with an opportunity to review the checklists for obsolete information and update any items that require modification during the changes in the organization. It ensures that the assigned members of disaster recovery team are still working for the organization. Answer: B is incorrect. A simulation test is a method used to test the disaster recovery plans. It operates just like a structured walk-through test. In the simulation test, the members of a disaster recovery team present with a disaster scenario and then, discuss on appropriate responses. These suggested responses are measured and some of them are taken by the team. The range of the simulation test should be defined carefully for avoiding excessive disruption of normal business activities. Answer: A is incorrect. A parallel test includes the next level in the testing procedure, and relocates the employees to an alternate recovery site and implements site activation procedures. These employees present with their disaster recovery responsibilities as they would for an actual disaster. The disaster recovery sites have full responsibilities to conduct the day-to-day organization's business. Answer: C is incorrect. A full-interruption test includes the operations that shut down at the primary site and are shifted to the recovery site according to the disaster recovery plan. It operates just like a parallel test. The full-interruption test is very expensive and difficult to arrange. Sometimes, it causes a major disruption of operations if the test fails.

Question No: 23 CORRECT TEXT

Fill in the blank with an appropriate phrase. models address specifications, requirements, design, verification and validation, and maintenance activities.

- A. Life cycle

Answer: A

Explanation: A life cycle model helps to provide an insight into the development process and emphasizes on the relationships among the different activities in this process. This model describes a structured approach to the development and adjustment process involved in producing and maintaining systems. The life cycle model addresses specifications, design, requirements, verification and validation, and maintenance activities.

Question No: 24

Which of the following security design patterns provides an alternative by requiring that a user's

authentication credentials be verified by the database before providing access to that user's data?

- A. Secure assertion
- B. Authenticated session
- C. Password propagation
- D. Account lockout

Answer: C

Explanation: Password propagation provides an alternative by requiring that a user's authentication credentials be verified by the database before providing access to that user's data. Answer: D is incorrect. Account lockout implements a limit on the incorrect password attempts to protect an account from automated password-guessing attacks. Answer: B is incorrect. Authenticated session allows a user to access more than one access-restricted Web page without re-authenticating every page. It also integrates user authentication into the basic session model. Answer: A is incorrect. Secure assertion distributes application-specific sanity checks throughout the system.

Question No: 25

Which of the following is the duration of time and a service level within which a business process must be restored after a disaster in order to avoid unacceptable consequences associated with a break in business continuity?

- A. RTO
- B. RTA
- C. RPO
- D. RCO

Answer: A

Explanation: The Recovery Time Objective (RTO) is the duration of time and a service level within which a business process must be restored after a disaster or disruption in order to avoid unacceptable consequences associated with a break in business continuity. It includes the time for trying to fix the problem without a recovery, the recovery itself, tests and the communication to the users. Decision time for user representative is not included. The business continuity timeline usually runs parallel with an incident management timeline and may start at the same, or different, points. In accepted business continuity planning methodology, the RTO is established during the Business Impact Analysis (BIA) by the owner of a process (usually in conjunction with the Business Continuity planner). The RTOs are then presented to senior management for acceptance. The RTO attaches to the business process and not the resources required to support the process. Answer: B is incorrect. The Recovery Time Actual (RTA) is established during an exercise, actual event, or predetermined based on recovery methodology the technology support team develops. This is the time frame the technology support takes to deliver the recovered infrastructure to the business. Answer: D is incorrect. The Recovery Consistency Objective (RCO) is used in Business Continuity Planning in addition to Recovery Point Objective (RPO) and Recovery Time Objective (RTO). It applies data consistency objectives to Continuous Data Protection services. Answer: C is incorrect. The Recovery Point Objective (RPO) describes the acceptable amount of data loss measured in time. It is the point in time to which data must be recovered as defined by the organization. The RPO is generally a definition of what an organization determines is an "acceptable loss" in a disaster situation. If the RPO of a company is 2 hours and the time it takes to get the data back into production is 5 hours, the RPO is still 2 hours. Based on this RPO the data must be restored to within 2 hours of the disaster.

Question No: 26

Which of the following processes culminates in an agreement between key players that a system in its current configuration and operation provides adequate protection controls?

- A. Information Assurance (IA)
- B. Information systems security engineering (ISSE)
- C. Certification and accreditation (C&A)
- D. Risk Management

Answer: C

Explanation: Certification and accreditation (C&A) is a set of processes that culminate in an agreement between key players that a system in its current configuration and operation provides adequate protection controls. Certification and Accreditation (C&A or CnA) is a process for implementing information security. It is a systematic procedure for evaluating, describing, testing, and authorizing systems prior to or after a system is in operation. The C&A process is used extensively in the U.S. Federal Government. Some C&A processes include FISMA, NIACAP, DIACAP, and DCID 6/3. Certification is a comprehensive assessment of the management, operational, and technical security controls in an information system, made in support of security accreditation, to determine the extent to which the controls are implemented correctly, operating as intended, and producing the desired outcome with respect to meeting the security requirements for the system. Accreditation is the official management decision given by a senior agency official to authorize operation of an information system and to explicitly accept the risk to agency operations (including mission, functions, image, or reputation), agency assets, or individuals, based on the implementation of an agreed-upon set of security controls. Answer: D is incorrect. Risk management is a set of processes that ensures a risk-based approach is used to determine adequate, cost-effective security for a system. Answer: A is incorrect. Information assurance (IA) is the process of organizing and monitoring information-related risks. It ensures that only the approved users have access to the approved information at the approved time. IA practitioners seek to protect and defend information and information systems by ensuring confidentiality, integrity, authentication, availability, and non-repudiation. These objectives are applicable whether the information is in storage, processing, or transit, and whether threatened by an attack. Answer: B is incorrect. ISSE is a set of processes and solutions used during all phases of a system's life cycle to meet the system's information protection needs.

Question No: 27

Adam works as a Computer Hacking Forensic Investigator for a garment company in the United States. A project has been assigned to him to investigate a case of a disloyal employee who is suspected of stealing design of the garments, which belongs to the company and selling those garments of the same design under different brand name. Adam investigated that the company does not have any policy related to the copy of design of the garments. He also investigated that the trademark under which the employee is selling the garments is almost identical to the original trademark of the company. On the grounds of which of the following laws can the employee be prosecuted?

- A. Espionage law
- B. Trademark law
- C. Cyber law
- D. Copyright law

Answer: B

Explanation: The Trademark law is a piece of legislation that contains the federal statutes of trademark law in

the United States. The Act prohibits a number of activities, including trademark infringement, trademark dilution, and false advertising. Trademarks were traditionally protected in the United States only under State common law, growing out of the tort of unfair competition. Trademark law in the United States is almost entirely enforced through private lawsuits. The exception is in the case of criminal counterfeiting of goods. Otherwise, the responsibility is entirely on the mark owner to file suit in either state or federal civil court in order to restrict an infringing use. Failure to "police" a mark by stopping infringing uses can result in the loss of protection. Answer: D is incorrect. Copyright law of the United States governs the legally enforceable rights of creative and artistic works under the laws of the United States. Copyright law in the United States is part of federal law, and is authorized by the U.S. Constitution. The power to enact copyright law is granted in Article I, Section 8, Clause 8, also known as the Copyright Clause. This clause forms the basis for U.S. copyright law ("Science", "Authors", "Writings") and patent law ("useful Arts", "Inventors", "Discoveries"), and includes the limited terms (or durations) allowed for copyrights and patents ("limited Times"), as well as the items they may protect. In the U.S., registrations of claims of copyright, recordation of copyright transfers, and other administrative aspects of copyright are the responsibility of the United States Copyright Office, a part of the Library of Congress. Answer: A is incorrect. The Espionage Act of 1917 was a United States federal law passed shortly after entering World War I, on June 15, 1917, which made it a crime for a person: To convey information with intent to interfere with the operation or success of the armed forces of the United States or to promote the success of its enemies. This was punishable by death or by imprisonment for not more than 30 years. To convey false reports or false statements with intent to interfere with the operation or success of the military or naval forces of the United States or to promote the success of its enemies and whoever when the United States is at war, to cause or attempt to cause insubordination, disloyalty, mutiny, refusal of duty, in the military or naval forces of the United States, or to willfully obstruct the recruiting or enlistment service of the United States. Answer: C is incorrect. Cyber law is a very wide term, which wraps up the legal issue related to the use of communicative, transactional and distributive aspect of networked information device and technologies. It is commonly known as INTERNET LAW. These Laws are important to apply as Internet does not tend to make any geographical and jurisdictional boundaries clear; this is the reason why Cyber law is not very efficient. A single transaction may involve the laws of at least three jurisdictions, which are as follows: 1.The laws of the state/nation in which the user resides 2.The laws of the state/nation that apply where the server hosting the transaction is located 3.The laws of the state/nation, which apply to the person or business with whom the transaction takes place

Question No: 28

John works as a professional Ethical Hacker. He has been assigned the project of testing the security of www.we-are-secure.com. In order to do so, he performs the following steps of the pre-attack phase successfully: Information gathering Determination of network range Identification of active systems Location of open ports and applications Now, which of the following tasks should he perform next?

- A. Perform OS fingerprinting on the We-are-secure network.
- B. Map the network of We-are-secure Inc.
- C. Install a backdoor to log in remotely on the We-are-secure server.
- D. Fingerprint the services running on the we-are-secure network.

Answer: A

Explanation: John will perform OS fingerprinting on the We-are-secure network. Fingerprinting is the easiest way to detect the Operating System (OS) of a remote system. OS detection is important because, after knowing the target system's OS, it becomes easier to hack into the system. The comparison of data packets

that are sent by the target system is done by fingerprinting. The analysis of data packets gives the attacker a hint as to which operating system is being used by the remote system. There are two types of fingerprinting techniques as follows: 1.Active fingerprinting 2.Passive fingerprinting In active fingerprinting ICMP messages are sent to the target system and the response message of the target system shows which OS is being used by the remote system. In passive fingerprinting the number of hops reveals the OS of the remote system. Answer: D and B are incorrect. John should perform OS fingerprinting first, after which it will be easy to identify which services are running on the network since there are many services that run only on a specific operating system. After performing OS fingerprinting, John should perform networking mapping. Answer: C is incorrect. This is a pre-attack phase, and only after gathering all relevant knowledge of a network should John install a backdoor.

Question No: 29

Which of the following DITSCAP C&A phases takes place between the signing of the initial version of the SSAA and the formal accreditation of the system?

- A. Phase 4
- B. Phase 3
- C. Phase 1
- D. Phase 2

Answer: D

Explanation: The Phase 2 of DITSCAP C&A is known as Verification. The goal of this phase is to obtain a fully integrated system for certification testing and accreditation. This phase takes place between the signing of the initial version of the SSAA and the formal accreditation of the system. This phase verifies security requirements during system development. Answer: C, B, and A are incorrect. These phases do not take place between the signing of the initial version of the SSAA and the formal accreditation of the system.

Question No: 30

In which of the following testing methodologies do assessors use all available documentation and work under no constraints, and attempt to circumvent the security features of an information system?

- A. Full operational test
- B. Penetration test
- C. Paper test
- D. Walk-through test

Answer: B

Explanation: A penetration testing is a method of evaluating the security of a computer system or network by simulating an attack from a malicious source. The process involves an active analysis of the system for any potential vulnerabilities that may result from poor or improper system configuration, known or unknown hardware or software flaws, or operational weaknesses in process or technical countermeasures. This analysis is carried out from the position of a potential attacker, and can involve active exploitation of security vulnerabilities. Any security issues that are found will be presented to the system owner together with an assessment of their impact and often with a proposal for mitigation or a technical solution. The intent of a penetration test is to determine feasibility of an attack and the amount of business impact of a successful exploit, if discovered. It is a component of a full security audit. Answer: C is incorrect. A paper test is the least complex test in the disaster recovery and business continuity testing approaches. In this test, the BCP/DRP plan documents are distributed to the appropriate managers and BCP/DRP team members for review, markup,