

Texas A&M University (TAMU) ISTM210 Fundamentals of Information Systems Practice Exam 1 (Sample)

Study Guide



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Questions

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1. Which of the following best defines cybersecurity?
 - A. The practice of securing physical data centers
 - B. The practice of protecting digital systems from attacks
 - C. The process of improving system performance
 - D. The management of human resources
2. What is the definition of a computer network?
 - A. A single computer used for processing
 - B. Two or more computers connected for sharing resources
 - C. A collection of software applications
 - D. A type of internet connection
3. What is the significance of EPEAT in technology?
 - A. Regulates software licensing
 - B. Tracks energy use
 - C. Indicates environmentally sustainable electronics
 - D. Improves network speed
4. What is crucial for an end-user to effectively use technology?
 - A. A high budget for new hardware
 - B. A willingness to explore and learn
 - C. A background in engineering
 - D. Access to technical support
5. How can higher system performance influence organizational costs?
 - A. It typically increases overhead expenses.
 - B. It can lead to cost reductions.
 - C. It maintains static costs without change.
 - D. It only affects IT budgets.

6. What is the main purpose of project management software?
- A. To assist in planning, organizing, and resource management
 - B. To create marketing strategies
 - C. To enhance customer satisfaction
 - D. To perform data analysis
7. What is one common threat in cybersecurity?
- A. Data validation
 - B. Social engineering
 - C. Performance metrics
 - D. Backup testing
8. What term refers to the physical components of a computer system?
- A. Software
 - B. Database
 - C. Networking
 - D. Hardware
9. What is a direct impact of reduced costs associated with high system performance?
- A. Lower quality of services.
 - B. Increased operational budget.
 - C. Enhanced user and customer experiences.
 - D. Less reliance on technology.
10. What is emphasized as a better practice in disaster planning?
- A. Complicated procedures
 - B. Clear and simple approaches
 - C. Reducing documentation
 - D. Strict adherence to protocols

Answers

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

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Explanations

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1. Which of the following best defines cybersecurity?

- A. The practice of securing physical data centers
- B. The practice of protecting digital systems from attacks
- C. The process of improving system performance
- D. The management of human resources

The definition of cybersecurity primarily revolves around the protection of digital systems, networks, and data from unauthorized access, attacks, damage, or theft. Cybersecurity encompasses a range of practices, technologies, and processes designed to safeguard computers, servers, mobile devices, and the networks that connect them from cyber threats. This includes not just preventing breaches but also responding to incidents and mitigating risks associated with potential vulnerabilities. The emphasis on "protecting digital systems from attacks" highlights the proactive measures taken to defend against various malicious activities such as hacking, phishing, ransomware, or other forms of cybercrime. By focusing on digital systems, this definition encapsulates the core of what cybersecurity is all about in today's digital landscape. In contrast, securing physical data centers, while important, is a specific aspect that falls under the broader umbrella of cybersecurity rather than the overarching definition itself. Improving system performance and managing human resources, on the other hand, address different components of an organization and do not directly convey the core mission and functions of cybersecurity. Therefore, the correct answer effectively captures the essence of cybersecurity in a comprehensive manner, emphasizing its crucial role in protecting the integrity and confidentiality of digital information.

2. What is the definition of a computer network?

- A. A single computer used for processing
- B. Two or more computers connected for sharing resources
- C. A collection of software applications
- D. A type of internet connection

The definition of a computer network is best captured by the concept of two or more computers connected for sharing resources. This definition highlights the fundamental purpose of computer networks, which facilitates communication and resource sharing between multiple devices. In a computer network, computers can connect and interact with one another through various means, such as wired or wireless connections. This connectivity allows for the sharing of data, files, and other resources like printers and internet access. In practical terms, computer networks can range from small local area networks (LANs) within a home or office to extensive wide area networks (WANs) that span large geographic areas. The other options do not accurately represent what constitutes a computer network. For instance, a single computer used for processing refers more to an isolated system and does not involve any connection with other devices. A collection of software applications does not embody the concept of interconnectivity between computers, and a type of internet connection describes a method of access rather than the network itself. Therefore, the correct choice emphasizes the essential characteristic of networking: the interconnection between multiple computing devices for the purpose of collaboration and resource sharing.

3. What is the significance of EPEAT in technology?

- A. Regulates software licensing
- B. Tracks energy use
- C. Indicates environmentally sustainable electronics
- D. Improves network speed

EPEAT (Electronic Product Environmental Assessment Tool) is a comprehensive rating system that helps consumers, businesses, and organizations evaluate and choose environmentally sustainable electronics. The significance of EPEAT lies in its ability to provide a clear framework for assessing the environmental impact of electronic products throughout their lifecycle, including factors such as energy consumption, materials used, recyclability, and corporate sustainability policies. By indicating whether a product meets certain environmental criteria, EPEAT equips consumers with the knowledge needed to make informed decisions, thereby promoting the purchase of electronics that are designed with sustainability in mind. This system helps drive the market towards more environmentally friendly practices and encourages manufacturers to improve their products in terms of sustainability. Thus, EPEAT plays a crucial role in enhancing the overall environmental responsibility of the technology sector.

4. What is crucial for an end-user to effectively use technology?

- A. A high budget for new hardware
- B. A willingness to explore and learn
- C. A background in engineering
- D. Access to technical support

The effectiveness of an end-user in utilizing technology greatly hinges on their willingness to explore and learn. This mindset fosters adaptability and encourages taking initiative when engaging with new tools, software, or systems. When users are open to experimentation and continuous learning, they can better navigate the complexities of technology, troubleshoot issues independently, and maximize the features and capabilities of the systems they are working with. While having access to technical support can be beneficial, it does not replace the need for users to be proactive in their learning journey. A high budget for new hardware may provide better equipment, but it is the user's engagement and curiosity that ultimately enhance their ability to leverage technology effectively. Similarly, a background in engineering might be helpful for certain technical tasks, but it is not a prerequisite for all users, as many effective end-users come from diverse backgrounds. Thus, the key factor that empowers users to harness technology to its fullest potential is their eagerness to learn and adapt.

5. How can higher system performance influence organizational costs?

- A. It typically increases overhead expenses.
- B. It can lead to cost reductions.
- C. It maintains static costs without change.
- D. It only affects IT budgets.

Higher system performance can have a significant impact on organizational costs through potential cost reductions. When a system operates more efficiently, it can process data faster and handle more transactions simultaneously, which can lead to several benefits. For example, improved performance may reduce the time employees spend on tasks, allowing them to focus on more strategic activities rather than waiting for processes to complete. This can result in fewer labor costs related to time spent on operational tasks. Moreover, higher system performance can lead to better resource utilization. For instance, a faster system may require fewer physical resources (like servers) to achieve the same output, leading to lower hardware and maintenance costs. Additionally, with improved performance, organizations can potentially reduce energy consumption associated with running underpowered or inefficient systems. Overall, by enhancing the efficiency of operations, higher system performance helps organizations to decrease operational costs and improve their overall bottom line. This creates a direct link between optimizing technology and enhancing financial performance within the organization.

6. What is the main purpose of project management software?

- A. To assist in planning, organizing, and resource management
- B. To create marketing strategies
- C. To enhance customer satisfaction
- D. To perform data analysis

The main purpose of project management software is to assist in planning, organizing, and resource management. This software is designed to facilitate the entire project lifecycle, enabling teams to develop project plans, allocate resources efficiently, set timelines, track progress, and manage budgets. By centralizing information and providing tools for collaboration, project management software helps ensure that tasks are completed on time and within scope. This focus on planning and organization is crucial because successful project management relies on clear communication, defined objectives, and a comprehensive understanding of the resources necessary to achieve desired outcomes. Project management software serves as a platform for teams to visualize project status, identify potential bottlenecks, and adjust plans as needed, which is essential for maintaining project momentum and ensuring that all stakeholders are aligned.

7. What is one common threat in cybersecurity?

- A. Data validation
- B. Social engineering
- C. Performance metrics
- D. Backup testing

Social engineering is a significant threat in cybersecurity because it involves manipulating individuals into divulging confidential or personal information that can be used for fraudulent purposes. This technique exploits human psychology rather than technical vulnerabilities, making it particularly dangerous. For instance, an attacker might impersonate a trusted figure or organization to deceive a victim into revealing passwords, account numbers, or other sensitive data. In contrast, the other options present different concepts that are important but do not directly represent a threat. Data validation is a protective measure designed to ensure data accuracy and integrity, rather than a threat itself. Performance metrics are used to assess the efficiency and effectiveness of systems, providing insights for improvements but posing no direct danger. Backup testing refers to the process of verifying that backups are functioning correctly to prevent data loss, which is a defensive practice that helps mitigate risks, rather than presenting a threat to security.

8. What term refers to the physical components of a computer system?

- A. Software
- B. Database
- C. Networking
- D. Hardware

The term that refers to the physical components of a computer system is hardware. Hardware encompasses all the tangible, physical devices and components that make up a computer, including the central processing unit (CPU), memory (RAM), storage devices (like hard drives and SSDs), input devices (such as keyboards and mice), and output devices (such as monitors and printers). Understanding hardware is crucial as it forms the foundation upon which software operates. While software is intangible and consists of programs and applications that run on the hardware, it requires the hardware to function. Networking pertains to the interconnection of computers and devices, as well as the communication protocols used, which is separate from the physical components. Databases are organized collections of data, also software-based, that rely on hardware for storage and access. Recognizing the distinction between these elements helps clarify how they work together in a computer system.

9. What is a direct impact of reduced costs associated with high system performance?

- A. Lower quality of services.
- B. Increased operational budget.
- C. Enhanced user and customer experiences.
- D. Less reliance on technology.

High system performance often leads to reduced operational costs because efficient systems require less time and fewer resources to operate effectively. As systems perform better, they can handle processes more efficiently, which reduces the time spent on tasks and minimizes the need for additional resources. This improvement allows organizations to allocate their resources better, leading to streamlined operations. As a result, one of the direct impacts of reduced costs associated with high system performance is the enhancement of user and customer experiences. With improved performance, users experience faster response times and more reliable services. This can lead to higher satisfaction levels as users find it easier and more pleasant to interact with the system, whether they are customers accessing a service or employees utilizing technology to complete their tasks. Engaging with well-performing systems enhances overall user engagement and promotes loyalty, as stakeholders perceive that the organization values their time and needs. In contrast, factors like lower quality of services or increased reliance on technology would not be accurate outcomes of high system performance. Instead, such performance directly correlates with better experiences for users and customers, highlighting the importance of maintaining high-performance systems in any organization.

10. What is emphasized as a better practice in disaster planning?

- A. Complicated procedures
- B. Clear and simple approaches
- C. Reducing documentation
- D. Strict adherence to protocols

Clear and simple approaches are emphasized as a better practice in disaster planning because they facilitate better understanding, quicker execution, and improved communication among team members during high-stress situations. Complex procedures can lead to confusion, mistakes, and delays when a disaster strikes, as the individuals involved may struggle to remember detailed steps under pressure. In contrast, having straightforward protocols allows for rapid response and ensures that all team members can easily perform their roles without extensive retraining or reference to complicated documents. Moreover, simplicity in disaster planning helps to ensure that everyone, from management to operational staff, can comprehend and follow the plan effectively, which is crucial for minimizing chaos and maximizing safety during an emergency. Overall, the emphasis on clear and simple approaches helps organizations build resilience and improve their response capabilities in various disaster scenarios.