DeVry University

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| SEC 360 FINAL EXAM   |  | | --- | | **1.** (TCO 1) Security policy contains three kinds of rules as policy clauses. What are they? (Points : 5) |   Preventive, detective, and responsive        Prohibitive, permissive, and mandatory        Administrative, technical, and physical        Management, technical, and operational        Roles, responsibilities, and exemptions |

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| |  | | --- | | Question 2. **2.** (TCO 2) The 10 IISSCC \_\_\_\_\_ cover 17 NIST control \_\_\_\_\_ which are arranged in three \_\_\_\_\_ called management, operational, and technical. (Points : 5) |   controls, domains, principles        domains, families, classes        principles, domains, families        domains, families, technologies        technologies, domains, families |

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| |  | | --- | | Question 3. **3.** (TCO 2) What are the effects of security controls? (Points : 5) |   Confidentiality, integrity, and availability        Administrative, physical, and operational        Detection, prevention, and response        Management, operational, and technical |

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| |  | | --- | | Question 6. **6.** (TCO 5) Ideas can be evaluated using \_\_\_\_\_, which are \_\_\_\_\_ that are not meant to be \_\_\_\_\_. (Points : 5) |   models, controls, solutions        controls, abstractions, solutions        models, abstractions, solutions        solutions, controls, abstractions        models, controls, abstractions |

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| |  | | --- | | Question 7. **7.** (TCO 6) Physical security controls traditionally include obstacles, alarms, lights, guards, cameras, and responders that produce a(n) \_\_\_\_\_. (Points : 5) |   sense of security        defense-in-depth        protective shield        entrance barrier        secure facility |

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| |  | | --- | | Question 10. **10.** (TCO 9) Mandatory access control uses labels and rules to mediate access to \_\_\_\_\_ by \_\_\_\_\_. (Points : 5) |   objects, subjects        files, people        computer cycles, applications        information assets, people        information assets, network devices |

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| |  | | --- | | Question 11. **11.** (TCO 10) Generally, \_\_\_\_\_ are encrypted using symmetric cryptography and \_\_\_\_\_ are encrypted using asymmetric cryptography. (Points : 5) |   data, messages        signatures, data        channels, data        messages, channels        messages, information |

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| |  | | --- | | Question 13. **13.** (TCO 11) A packet-filtering router operates at OSI Layer 3 so it can filter Internet protocol source and destination addresses, but it can also filter \_\_\_\_\_ port numbers. (Points : 5) |   Layer 1        Layer 2        Layer 3        Layer 4/7        applications |

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**1.** (TCO 1) Explain what is wrong with this policy clause, and show how you could fix it. *People shall obey corporate policies.* (Points : 15)

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| Question 2. **2.** (TCO 2) Briefly explain how the three effects of security controls--prevention, detection, and recovery--can be used to maintain the known good state for a system. (Points : 15) |

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| Question 3. **3.** (TCO 3) Briefly explain how defense in depth is a management strategy for security. (Points : 15) |

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| Question 4. **4.** (TCO 4)  Briefly explain what needs to be accomplished before your company monitors the activities of authorized users of your company systems, and then explain what should be accomplished to legally monitor the activities of a hacker (unauthorized user) of your system. (Points : 15) |

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| Question 5. **5.** (TCO 5) Explain the effects of the three goals of information security. (Points : 15) |

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| Question 6. **6.** (TCO 6) Briefly explain why good physical security is critical to good information security. (Points : 15) |

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| Question 7. **7.** (TCO 7) Explain what media disposition means. (Points : 15) |

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| Question 8. **8.** (TCO 8) Explain the term cold site. (Points : 15) |

**Page 3**

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| |  | | --- | | Question 1. **1.** (TCO 9) Describe the fundamental difference between Mandatory Access Control (MAC) and Discretionary Access Control (DAC). (Points : 15) | |

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| Question 2. **2.** (TCO 10) Briefly explain why key management is a critical requirement for a good symmetric cryptographic solution. (Points : 15) |

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| Question 3. **3.** (TCO 11) Explain how a demilitarized zone might be used to protect critical resources that are not to be shared outside of an organization. (Points : 15) |

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| Question 4. **4.** (TCO 11) With regard to application-level gateway firewalls, determine the added costs in terms of the activities and resources required to effectively use them. (Points : 15) |

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| Question 5. **5.** (TCO 12)  Explain what the symbol P(A|B) means. (Points : 15) |

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| Question 6. **6.** (TCO 12) Evaluate the characteristics of a WAN and justify why it is more complex than a LAN. (Points : 15) |

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| Question 7. **7.** (TCO 13) Explain how a worm propagates itself. (Points : 15) |