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**Presidency University**

**Bengaluru**

**School Of Computer Science and Engineering & Information Science**

**End-Term Examinations, Aug 2024**

**Date**: 06.08.2024

**Time**: 9:30 am to 12:30 Pm

**Max Marks**: 100

**Weightage**: 50%

**Odd Semester**: 2023 - 24

**Course Code**: CSE2060

**Course Name**: Information Security and Management,

**Department: CSE**

**Instructions:**

1. *Read the all questions carefully and answer accordingly.*
2. *Do not write any matter on the question paper other than roll number.*

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| **Q.No** | **Questions** | **Marks** | **CO** | **RBT** |
| 1 | 1. What are the key terms and critical concepts of information security? | 4 | CO1 | L1 |
| 1. Write Short notes on five different phases of NIST Approach to Securing the SDLC. | 6 | CO1 | L2 |
| |  | | --- | | 1. Illustrate the important role of every phases in System Development Life Cycle. | | 10 | CO1 | L3 |
| OR | | | | |
| 2 | 1. Describe how information security evolved. | 4 | CO1 | L1 |
| 1. Identify the aspect of Information Security implementation. | 6 | CO1 | L2 |
| |  |  | | --- | --- | | |  | | --- | | 1. Illustrate the Balancing of information security and access. | | | 10 | CO1 | L3 |

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| 3 | 1. Define Sabotage or Vandalism. | 4 | CO2 | L1 |
| 1. Describe the importance of Copyright Protection. | 6 | CO2 | L2 |
| 1. Explain the multiple defenses against attacks. | 10 | CO2 | L3 |

OR

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| 4 | 1. List the Communities of Interest in Managing Risk in an organization. | 4 | CO2 | L1 |
| 1. List the Technical Hardware and Software failures. | 6 | CO2 | L2 |
| 1. Discuss various types of Active and Passive attacks. Also, Compare Active and Passive attacks. | 10 | CO2 | L3 |

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| 5 | 1. Write short notes on an importance of documenting the results of Risk assessment? | 4 | CO3 | L1 |
| 1. State the Discretionary and Non-Discretionary Access Controls? | 6 | CO3 | L2 |
| 1. Describe Risk Management framework and Risk Management process?   Outline the importance of Risk Management policy. | 10 | CO3 | L3 |

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| 6 | 1. What are the requirement of Mandatory Access Controls (MACs). | 4 | CO3 | L1 |
| 1. Outline the importance of Continuous Monitoring in Risk management. | 6 | CO3 | L2 |
| 1. Describe the Risk management framework Design and Implementation. | 10 | CO3 | L3 |

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| 7 | 1. Outline the typical relationship among the Untrusted network, the Firewall,   and Trusted network? | 4 | CO4 | L1 |
| 1. Explain how is Static Filtering different from Dynamic Filtering of packets? Which is perceived to offer improved security? | 6 | CO4 | L2 |
| 1. Brief about Firewall Architectures. Describe how do screened host architectures or firewalls differ from screened subnet firewall architectures? Which offers more security for the information assets that remain on the trusted network? | 10 | CO4 | L3 |

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| 8 | 1. Differentiate between Authentication and Authorization. | 4 | CO4 | L1 |
| 1. State a Content Filter? Where is it placed in the network to gain the best result for the organization? | 6 | CO4 | L2 |
| 1. Describe the VPN? Why is it becoming more widely used? Explain in detail. | 10 | CO4 | L3 |

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| 9 | 1. List the phases of the Security Systems Development Life cycle. | 4 | CO1 | L1 |
| 1. Describe the importance of each component of IS. | 6 | CO1 | L2 |
| 1. Explain the functioning of the Information Security Project Team. Interpret the IS as combination of both Science and Art. | 10 | CO1 | L3 |

OR

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| 10 | 1. Define Software Piracy. | 4 | CO2 | L1 |
| 1. Discuss Threat Consequences. | 6 | CO2 | L2 |
| 1. Describe the Various threats posed to information security and common attacks associated with those threats. Also enumerate the relationship between threats and attacks against information within systems. | 10 | CO2 | L3 |