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PRESIDENCY UNIVERSITY BENGALURU

SCHOOL OF ENGINEERING

MAKE UP EXAMINATION - JULY 2024

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| **Semester : 5** | **Date : 10-07-2024** |
| **Course Code : CSE2060** | **Time : 01.30 PM to 04.30 PM** |
| **Course Name : Information Security and Management** | **Max Marks : 100** |
| **Program : Computer Science and Engineering** | **Weightage : 50%** |

**Instructions:**

1. *Read all questions carefully and answer accordingly.*
2. *Question paper consists of 3 parts.*
3. *Scientific and non-programmable calculator are permitted.*
4. *Do not write any information on the question paper other than Roll Number.*

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| **PART A** | | | |
| **ANSWER ANY 5 QUESTIONS 5Q X 2M=10M** | | | |
| 1 | Outline the phases of the security systems development life cycle. | (CO1) | [Remember] |
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| 2 | Outline Software Piracy. | (CO2) | [Remember] |
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| 3 | Compare between active and passive attacks. | (CO2) | [Understand] |
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| 4 | List a few potential attributes of information assets. | (CO3) | [Remember] |
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| 5 | Describe the risk management. | (CO3) | [Remember] |
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| 6 | Identify the importance of biometric in security technology. | (CO4) | [Remember] |
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| 7 | Discuss the hybrid firewall. | (CO4) | [Remember] |
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| **PART B** | | | |
| **ANSWER ANY 5 QUESTIONS 5Q X 10M=50M** | | | |
| 8 | Describe the Software Design Principles. | (CO1) | [Understand] |
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| 9 | Explain the CNSS security Model. | (CO1) | [Understand] |
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| 10 | Describe the threat consequences. | (CO2) | [Understand] |
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| 11 | Describe the threats posed to information security and common attacks associated with those threats. | (CO2) | [Understand] |
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| 12 | 1. Outline the Vulnerability Assessment? 2. You need to calculate the ALE for a server. The value of the server is $3,000, but it has crashed 10 times in the past year. Each time it crashed; it resulted in a 10 percent loss? Calculate the ALE? | (CO3) | [Apply] |
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| 13 | Explain various Firewall Architectures. | (CO4) | [Understand] |
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| 14 | Explain the various techniques used to protect remote connection. | (CO4) | [Understand] |
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| **PART C** | | | |
| **ANSWER ANY 2 QUESTIONS 2Q X 20M=40M** | | | |
| 15 | 1. Explain the organizational hierarchy and its relationship to the bottom-up and top-down approaches. 2. Explain the Insider threat. | (CO1&2) | [Understand] |
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| 16 | 1. Explain the functioning of the Information Security Project Team. 2. Describe the Software Attacks. | (CO1&2) | [Understand] |
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| 17 | 1. Explain the importance of executive Governance and support in risk management. 2. Discuss the VPN? Why is it becoming more widely used? Explain in detail. | (CO3&4) | [Understand] |
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