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Question Paper Code	13019
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M.E. / M.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2024

Second Semester

M.E. - Computer Science and Engineering

20PCSPC202 - SECURITY PRACTICES

Regulations - 2020

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

- | | Marks | K-
Level | CO |
|--|-------|-------------|-----|
| 1. How the intrusion detection system works? | 2 | K1 | CO1 |
| 2. List the steps to build a secured organization. | 2 | K1 | CO1 |
| 3. Define DHCP. | 2 | K1 | CO2 |
| 4. List the types of primitives used in communication service. | 2 | K1 | CO2 |
| 5. Compare IPV4 and IPV6. | 2 | K2 | CO3 |
| 6. Define Meta directory. | 2 | K1 | CO3 |
| 7. Show how to detect a Spoofed Email. | 2 | K2 | CO4 |
| 8. Outline the need of Cyber forensic. | 2 | K2 | CO4 |
| 9. What is meant by Data Retention Policy? | 2 | K1 | CO5 |
| 10. Define Botnet. | 2 | K1 | CO5 |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

- | | | | |
|---|----|----|-----|
| 11. a) Describe about Fault tolerance against crash and byzantine failure in cloud computing. | 13 | K2 | CO1 |
| OR | | | |
| b) Explain in detail about Intrusion prevention system and building a secure Organization. | 13 | K2 | CO1 |
| 12. a) Demonstrate the different types of attacks on Wireless Sensor Networks. | 13 | K2 | CO2 |
| OR | | | |
| b) Describe any two algorithms used in signature analysis with an example. | 13 | K2 | CO2 |
| 13. a) Develop the process for implementing online identity and user management System. | 13 | K3 | CO3 |

OR

- b) Construct and discuss about Generic Policy Architecture with neat diagram. 13 K3 CO3
14. a) Explain in detail about how Network Forensic tools are used to retrieve and analyze data. 13 K2 CO4

OR

- b) Define Satellite Encryption and Explain in detail about the uses of Satellite Encryption. 13 K2 CO4
15. a) Explain in detail about how information is secured while Network Forensics investigations are Handled at the Preliminary stage. 13 K2 CO5

OR

- b) Summarize about different types of Transposition and substitution techniques. 13 K2 CO5

PART - C (1× 15 = 15 Marks)

16. a) Develop and discuss the various techniques used to Detection of Conflicts in security policies. 15 K3 CO6

OR

- b) Identify the Organizational Structure of Storage Area Network. 15 K3 CO6