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Question Paper Code	12198
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M.E. / M.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2023

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

- | | <i>Marks,
K-Level, CO</i> |
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| 1. List the applications of high performance and high throughput systems. | 2,K1,CO1 |
| 2. Differentiate between hackers and crackers. | 2,K2,CO1 |
| 3. State the various primitives of communication service interface. | 2,K1,CO2 |
| 4. Show the threat at each component of internet exposes to internet protocol Suite. | 2,K2,CO2 |
| 5. Distinguish between physical security and data security. | 2,K2,CO3 |
| 6. Why do we need system integrity validation? | 2,K1,CO3 |
| 7. Name any four services offered in Forensic analysis team. | 2,K1,CO4 |
| 8. What are Data retention policies? | 2,K1,CO4 |
| 9. Discuss how privacy protection could be exploited by adversaries. | 2,K2,CO5 |
| 10. List the rules for a data being considered as evidence. | 2,K1,CO5 |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11. a) Explain in detail about how Vulnerability testing and patching is performed in real time. 13,K2,CO1

OR

- b) (i) Describe about the security objectives of Intrusion detection system. 6,K2,CO1
(ii) Explain Zero-day attack and Good known state in detail. 7,K2,CO1

12. a) (i) Show the Taxonomy of attacks for cellular network attack. 6,K2,CO2
(ii) Discuss the difference between wireless and wireless sensor network security. 7,K2,CO2

OR

- b) Explain in detail about botnet attacks and also state how it can be prevented. 13,K2,CO2

13. a) Discuss the deployment models and give a detailed note about Information security. *13,K2,CO3*

OR

b) Explain how security is ensured using different Firewall Technologies. *13,K2,CO3*

14. a) Summarize about the functions of Information Management with Legal and Regulatory Obligation. *13,K2,CO4*

OR

b) Examine how authentication is ensured using Password based authenticated Key establishment Protocols. *13,K2,CO4*

15. a) (i) Discuss about Detection of Conflicts in Security Policies. *7,K2,CO5*

(ii) Classify the issues in Conflicts in Executable Security Policies. *6,K2,CO5*

OR

b) Describe in detail about the Risk management Standards and Risk Management methodology. *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Examine in detail about the functions of different Privacy Enhancing Technologies. *15,K2,CO6*

OR

b) Summarize the benefit of Storage area network security and authorization methods for privacy and security in environment monitoring system design. *15,K2,CO6*