Question Paper Code | **12683**

M.E. / M.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 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.	Define Cryptography.	2	K1	CO1
2.	How intrusion detection system works?	2	K1	CO1
3.	List the functions of HLR & VLR.	2	K1	CO2
4.	What is the function of MAC layer?	2	K1	CO2
5.	Compare IPV4 and IPV6.	2	K2	CO3
6.	State the purpose of Risk Analysis in building a secured Organization.	2	K1	CO3
7.	Find the function of CSIRT.	2	K1	CO4
8.	Define IP spoofing.	2	K1	CO4
9.	Differentiate virus and worm.	2	K2	CO5
10.	What do you mean by zero-day attack?	2	K1	CO5

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

11.	a)	Explain in detail about Intrusion prevention system and steps to build a secure Organization.	13	K2	CO1
		OR			
	b)	Discuss about Fault Tolerance and Resilience in Cloud Computing Environments.	13	K2	CO1
12.	a)	Explain the architecture of wireless sensor network security with its applications.	13	K2	CO2
		OR			
	b)	Describe in detail about cellular network security with an example.	13	K2	CO2
13.	a)	Identify the functions of policy driven management system using NIST Cloud computing reference architecture.	13	K3	CO3
		OR			

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

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b)	Write and discuss in detail about Information Security Essentials for IT Managers.	13	K3	CO3

14. a) Discuss the role of cyber forensic in implementing law.   *13 K2 CO4*

<div align="center">OR</div>

b) Explain in detail about the use of Network Forensic tools in retrieving and analyzing the data.   *13 K2 CO4*

15. a) Illustrate the Principles of Password based authenticated Key establishment Protocols.   *13 K2 CO5*

<div align="center">OR</div>

b) Summarize about the different types of Classical Cryptography techniques.   *13 K2 CO5*

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PART - C (1 × 15 = 15 Marks)

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16. a) Explain in detail about Privacy Enhancing Technologies.   *15 K2 CO6*

<div align="center">OR</div>

b) Illustrate the Organizational Structure of Storage Area Network.   *15 K2 CO6*