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Question Paper Code	13720
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**M.E. - DEGREE EXAMINATIONS, APRIL / MAY 2025**

Second Semester

**M.E. - Computer Science and Engineering**

**20PCSPC202 / 24PCSPC202 - SECURITY PRACTICES**

Regulations – 2020 / 2024

Duration: 3 Hours

Max. Marks: 100

**PART - A (10 × 2 = 20 Marks)**

Answer ALL Questions

	<i>Marks</i>	<i>K– Level</i>	<i>CO</i>
1. Define Cryptography.	2	K1	CO1
2. Which one is tedious? Wired or wireless - Justify.	2	K1	CO1
3. Define DHCP.	2	K1	CO2
4. Show the function of DNS.	2	K2	CO2
5. Differentiate between IPV4 and IPV6.	2	K2	CO3
6. State the need for Risk Analysis.	2	K1	CO3
7. Recall the operations performed during Forensic analysis.	2	K1	CO4
8. How data is transferred securely using Steganography technique?	2	K1	CO4
9. List the rules for a data being considered as evidence.	2	K1	CO5
10. Write about zero-day attack.	2	K1	CO5

**PART - B (5 × 13 = 65 Marks)**

Answer ALL Questions

11. a) Discuss in detail about Fault Tolerance and Resilience in Cloud Computing Environments.	13	K2	CO1
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**OR**

b) Explain the ten steps involved in building a secure Organization.	13	K2	CO1
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12. a) Demonstrate how secure communication is ensured in Intranet network system.	13	K2	CO2
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**OR**

b) Explain the architecture of wireless sensor network security with its applications.	13	K2	CO2
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13. a) Identify and discuss the various aspects related to IT security in an organization.	13	K3	CO3
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**OR**

- b) Build the process for online identity and user management system and summarize the output. 13 K3 CO3

14. a) Summarize the types of Disk Structure and recovery techniques used in an organization for data storage. 13 K2 CO4

**OR**

- b) Discuss in detail about the models assisted to define the entire process of electronic discovery. 13 K2 CO4

15. a) Illustrate the functions of different classical cryptography techniques. 13 K2 CO5

**OR**

- b) Interpret how security is ensured using different Firewall Technologies. 13 K2 CO5

**PART - C (1 × 15 = 15 Marks)**

16. a) Construct a Storage area network for an Educational organization. 15 K3 CO6

**OR**

- b) Apply Privacy enhancing technology for securing a data in an industry. 15 K3 CO6