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10CS/IS835

Eighth Semester B.E. Degree Examination, Feb./Mar. 2022
Information and Network Security

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART – A

- 1 a. Discuss various stages in Incident response planning strategy. (10 Marks)
b. Write and explain the components of sample issue specific policy. (10 Marks)
- 2 a. Define firewall and describe rules of firewalls in brief. (10 Marks)
b. What are different ways to implement virtual private N/W. explain in detail. (10 Marks)
- 3 a. Describe the different IDPS detection methods. (08 Marks)
b. List out strength and weakness of IDPS. (05 Marks)
c. What are the strategies need to be considered in deploying IDPS? Explain. (07 Marks)
- 4 a. Explain different attacks on cryptosystem. (10 Marks)
b. Explain types of cryptographic tools in short. (10 Marks)

PART – B

- 5 a. Differentiate between Kerberos version 4 and 5. (06 Marks)
b. Explain different security attacks. (08 Marks)
c. Explain the model for network security. (06 Marks)
- 6 a. List and explain different services of PGP. (05 Marks)
b. Describe 2 forms of MIME and explain the functionality of S/MIME. (08 Marks)
c. Explain the different approaches for public key management. (07 Marks)
- 7 a. With a neat diagram, explain IP security documents and what are the benefits of IP security. (08 Marks)
b. Describe the IP Sec Authentication header. (05 Marks)
c. Explain two modes of ESP in detail. (07 Marks)
- 8 a. Explain Alert and Handshake protocols in detail. (10 Marks)
b. List out the key features of SET. (04 Marks)
c. Briefly describe the sequence of events in SET. (06 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.