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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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