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10CS/IS835

Eighth Semester B.E. Degree Examination, Dec.2016/Jan.2017
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. Explain the relationship between policies, standards and practices with a diagram. (06 Marks)
b. Explain EISP and its components. (08 Marks)
c. Explain the components of contingency planning. (06 Marks)
- 2 a. Discuss five major processing – mode categories of firewalls. (10 Marks)
b. Define VPN and explain briefly the different modes to implement VPN. (10 Marks)
- 3 a. Explain different types of IDP system. (10 Marks)
b. Define Honey pot. List its advantages and disadvantages. (10 Marks)
- 4 a. Explain any 3 types of cryptographic tools. (12 Marks)
b. Explain transposition cipher method with an example. (08 Marks)

PART – B

- 5 a. Explain the model for network security. (06 Marks)
b. Describe the security services defined in X.800. (08 Marks)
c. Differentiate between Kerberos version 4 and 5. (06 Marks)
- 6 a. Explain the different types of PGP services. (05 Marks)
b. With a neat diagram, explain the general format of PGP message. (07 Marks)
c. Explain functions and cryptographic algorithms used in S/MIME functionality. (08 Marks)
- 7 a. Give the general structure of IPsec authentication header. Describe how anti – replay service is supported. (10 Marks)
b. What is security association? Discuss various parameters used to describe a security association database. (10 Marks)
- 8 a. Explain SSL protocol stack and discuss session and connection state parameters. (10 Marks)
b. Explain the requirements and features of secure electronic transaction. (10 Marks)

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