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10CS/IS835

**Eighth Semester B.E. Degree Examination, June/July 2015****Information and Network Security**

Time: 3 hrs.

Max. Marks: 100

**Note: Answer FIVE full questions, selecting at least TWO questions from each part.**

**PART - A**

- 1 a. Explain the characteristics of viable security policies. (10 Marks)  
b. Discuss the components of sample issue specific policy. (10 Marks)
- 2 a. Explain the dual homed host firewall. (10 Marks)  
b. Define firewall and explain all the firewall rules. (10 Marks)
- 3 a. Explain the different types of IDP systems. (10 Marks)  
b. Discuss measuring effectiveness of IDPs. (10 Marks)
- 4 a. With an example, explain vernam cipher technique for encrypting the plaintext. (10 Marks)  
b. Explain the different attacks on crypto system. (10 Marks)

**PART - B**

- 5 a. Discuss the different active attacks. (10 Marks)  
b. Explain the environmental shortcomings of Kerberos V4. (05 Marks)  
c. With a diagram, explain the X-509 certificate format. (05 Marks)
- 6 a. Using figure, explain how authentication is performed in PGP. (10 Marks)  
b. Explain the S/MIME functionality. (05 Marks)  
c. Explain the MIME content types. (05 Marks)
- 7 a. With a diagram, explain basic combination of security associations. (10 Marks)  
b. Explain the ISAKMP message exchange types. (10 Marks)
- 8 a. Explain the handshake protocol action in SSL (10 Marks)  
b. Explain the key features of SET. (05 Marks)  
c. With a figure, discuss the dual signature construction. (05 Marks)

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