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 V_4. (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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