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Eighth Semester B.E. Degree Examination, Dec.2014/Jan. 2015
Information and Network Security

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. Explain the major steps specified in BS7799:2 documents. How these steps help in provide security planning? (10 Marks)
- b. Mention the major steps involved in contingency mans? Describe briefly Pipkin's three categories of incident indicators. (10 Marks)
- 2 a. What is firewall? Explain screened host and screened host with subnets firewall architecture, with neat diagram. (10 Marks)
- b. What is VPN? Explain the working modes of VPN with neat diagram. (10 Marks)
- 3 a. Describe briefly network based IDPS and host based IDPS. (10 Marks)
- b. What is intrusion? Explain the IDPS detection methods. (05 Marks)
- c. Explain the deployment of NIDPs. (05 Marks)
- 4 a. Describe symmetric and asymmetric encryption techniques. (10 Marks)
- b. Who can attack cryptosystems? Discuss the different categories of attacks on cryptosystem. (10 Marks)

PART – B

- 5 a. Describe briefly the various security attacks and security mechanisms covered by x.800. (10 Marks)
- b. Explain the network-access security model. (05 Marks)
- c. Describe the authentication procedure covered by x.509. (05 Marks)
- 6 a. Explain PGP message generation and reception techniques. (10 Marks)
- b. Explain S/MIME transfer encodings. (05 Marks)
- c. Explain S/MIME functionality. (05 Marks)
- 7 a. Describe the transport and tunnel modes used for IP sec AH authentication. Bring their importance in IPv4. (10 Marks)
- b. Explain okaley key determination protocol. (10 Marks)
- 8 a. Explain the SSL handshake protocol, with neat diagram. (10 Marks)
- b. Explain SET participants and sequence of events for transaction, in detail. (05 Marks)
- c. Explain the dual signature in SET protocol. Describe its importance. (05 Marks)