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Eighth Semester B.E. Degree Examination, December 2010
Information and Network Security

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. Discuss the system specific security policy. How managerial guidance and technical specifications can be used in SysSP? (10 Marks)
 b. Who is responsible for a policy management? How a policy is managed? Explain. (10 Marks)
- 2 a. Explain the major steps specified in BS7799:2 document. How these steps help in security planning? (10 Marks)
 b. What is a firewall? Show the working of a screened host and dual homed firewalls. (10 Marks)
- 3 a. How a firewall can be configured and managed? Give examples. (10 Marks)
 b. What is a VPN? Explain the two modes of a VPN. (10 Marks)
- 4 a. What is an intrusion? Briefly write about any eight IDPS terminologies. (10 Marks)
 b. What is an encryption? Discuss the symmetric and asymmetric encryption methods. (10 Marks)

PART – B

- 5 a. What is meant by information security? Discuss the three aspects of information security. (10 Marks)
 b. Briefly explain the four types of security attacks that are normally encountered. Also, distinguish between active and passive attacks. (10 Marks)
- 6 a. With a schematic figure, explain Kerberos Ver-4 authentication dialogue. Clearly mention various steps. (10 Marks)
 b. With flow charts, explain the process of transmission and reception of PGP messages. (10 Marks)
- 7 a. Give the general structure of IPSEC authentication header. Describe how anti reply service is supported. (10 Marks)
 b. With neat diagrams, discuss the basic combinations of security associations. (10 Marks)
- 8 a. What is SET? Discuss the requirements and key features of SET. (10 Marks)
 b. Write short notes on:
 i) SSL handshake protocol
 ii) SSL alert protocol. (10 Marks)

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