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Srinivas Institute of Technology
Library, Mandalore

08SCS31

Third Semester M.Tech. Degree Examination, June/July 2011

Information and Network Security

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Define the following terms :
 i) Security ii) Information security iii) Network Security iv) Information system. (10 Marks)
 b. What is EISP? List and discuss the EISP elements. (10 Marks)
- 2 a. With a diagram, explain the approaches to information security implementation. (10 Marks)
 b. List and explain the strategies for business continuity. (10 Marks)
- 3 a. With a block diagram, explain the sphere of security. (10 Marks)
 b. Define security blueprint. Explain with ISO 27000 series. (10 Marks)
- 4 a. List the components of contingency planning. Explain with a time line diagram. (10 Marks)
 b. Write a note on NIDS and firewalls. (10 Marks)
- 5 a. Define the terms security attack, security mechanism and security service. (06 Marks)
 b. What is the difference between passive and active security threats? Explain with an example. (06 Marks)
 c. Write the functions of S/MIME. (08 Marks)
- 6 a. Define the term dual signature. What is its purpose? Explain with a block diagram. (10 Marks)
 b. Write basic combinations of security associations. (10 Marks)
- 7 a. What criteria must the specification meet to become standard in standardization process? (05 Marks)
 b. Write the Diffie – Hellmann key exchange algorithm. (05 Marks)
 c. With a block diagram, explain secure electronic transaction (SET). (10 Marks)
- 8 a. Classify the cryptographic system, with independent dimensions. (05 Marks)
 b. Write short notes on the following :
 i) HIDS ii) RSA algorithm iii) RFC. (15 Marks)

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