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Eighth Semester B.E. Degree Examination, May/June 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. Explain the Pipkin's three categories of incident indicators. (12 Marks)
 - b. Explain the ISO/IEC 270 01 : 2005 plan –DO-Check-Act cycle. (08 Marks)
- 2
 - a. Explain the firewall rules. (10 Marks)
 - b. Explain the screened subnet firewall. (10 Marks)
- 3
 - a. How does a signature-based IDPs differ from a behaviour based IDPs? (10 Marks)
 - b. Explain the vulnerability scanners. (10 Marks)
- 4
 - a. What are the differences between digital signature and digital certificate? (10 Marks)
 - b. Explain the two methods of encrypting plaintext. (10 Marks)

PART – B

- 5
 - a. What are the differences between active and passive security attacks? (05 Marks)
 - b. Explain the different authentication procedures in X.509 certificate. (09 Marks)
 - c. Write the summary of Kerberos version five message exchange. (06 Marks)
- 6
 - a. With a neat diagram, explain the digital signature service provided by PGP. (10 Marks)
 - b. Explain the different MIME content types. (10 Marks)
- 7
 - a. Explain the format of an ESP packet in IP security. (07 Marks)
 - b. Why does ESP include a padding field? (03 Marks)
 - c. Give an example of an aggressive Oakley key. (10 Marks)
- 8
 - a. Explain the dual signature in SET protocol. What is its purpose? (10 Marks)
 - b. Explain the different alert codes of TLS protocols. (10 Marks)

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