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10CS/IS835

Eighth Semester B.E. Degree Examination, Dec.2018/Jan.2019
Information Network Security

Time: 3 hrs.

Max. Marks:100

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

PART - A

- 1 a. Define policy and explain specific security policy. (10 Marks)
b. Explain the characteristics of viable security policies. (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. What is IDPS? Explain the advantages and disadvantages of NIDPS. (10 Marks)
b. Explain the following terms in detail:
i) Honey pots
ii) Honey Nets
iii) Padded cell system. (10 Marks)
- 4 a. Explain Vernam Cipher with suitable example. (10 Marks)
b. List and explain the attacks on a cryptosystem. (10 Marks)

PART - B

- 5 a. Explain the different authentication procedures in X.509 certificate. (10 Marks)
b. Explain briefly OSI security architecture. (10 Marks)
- 6 a. Explain the procedure along with diagram to implement confidentiality in PGP. (10 Marks)
b. Explain the different MIME content types. (10 Marks)
- 7 a. Explain the IP security architecture in detail. (10 Marks)
b. Describe how authentication header is implemented in transport and tunnel modes with a neat diagram. (10 Marks)
- 8 a. Explain the handshake protocol action in SSL. (10 Marks)
b. Explain the different alert codes of TLS protocols. (10 Marks)

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.