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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

Eighth Semester, B.E. - Information Science and Engineering

Semester End Examination; June/July - 2015

Network Security and Cryptography

Time: 3 hrs

Max. Marks: 100

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

PART - A

1. a. Discuss the elements and components of EISP. 8
- b. Define contingency planning. Discuss the various components of the same. 5
- c. With the neat diagram, explain the spheres of security. 7
- 2 a. Explain the various processing modes of firewalls. 10
- b. Explain the Kerberos system for authentication. 10
- 3 a. Discuss about the types of IDS. 10
- b. Define of differentiate the following : 10
- i) Honey pot ii) Honey net iii) Padded cells
- 4 a. Explain the different cryptographic tools. 10
- b. Explain the different attacks on cryptosystems. 10

PART – B

- 5 a. Explain the various types of attacks. 10
- b. Discuss the authentication procedure of X.509. 10
- 6 a. Explain the services provided by PGP. 10
- b. Explain the S/MIME functionality. 5
- c. Explain the various content types of MIME. 5
- 7 a. With the block diagram, explain the IPsec documents. 8
- b. With the format explain the authentication header. 7
- c. Explain the transport mode ESP. 5
- 8 a. Explain the Handshake protocol. 10
- b. Explain the sequence of events that are required for a transaction in SET. 10