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

(An Autonomous Institution affiliated to VTU, Belagavi)

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

Semester End Examination; Jan. / Feb. - 2021

Information and Network Security

Time: 3 hrs

Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

UNIT - I

- 1 a. Explain the importance of policy management during corporate mergers and divestitures. Also discuss about five security policies that must be implemented in all corporate to remain viable. 10
- b. With a neat diagram, discuss about major process step involved in developing the blueprint for the information security program. 10
- 2 a. Discuss about the major steps involved in contingency planning. 10
- b. Discuss about SESAME and VPN in detail. 10

UNIT - II

- 3 a. Why use an IDPS? List and explain at least ten terminologies that are used in IDPS. 10
- b. Discuss about Network-based and Host-based IDPS in detail. 10
- 4 a. Discuss about Public Key Infrastructure (PKI) and Digital Signature. 10
- b. Discuss about various kinds of Attacks on Cryptosystems. 10

UNIT - III

- 5 a. How are security attacks classified both in X.800 and RFC2828? 10
- b. Discuss about Kerberos version 4 message exchanges. 10
- 6 a. With the help of operational description and notation, discuss about PGP in detail. 10
- b. Discuss about five header fields and content types in MIME. 10

UNIT - IV

- 7 a. Discuss about IPsec architecture and its applications. 10
- b. Discuss about processing model for outbound and inbound packets in IP security. 10
- 8 a. Discuss about encapsulating security payload packet format in detail. 10
- b. Discuss about basic combination of security association with different cases in detail. 10

UNIT - V

- 9 a. Discuss about SSL architecture in detail. 10
- b. Give a comparison of various kinds of threats along with its consequences and countermeasure on the web. 10
- 10 a. Define Virus. Discuss about Virus structure along with a simple Virus program. 10
- b. Discuss about Worms in detail. 10

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