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Eighth Semester B.E. Degree Examination, June/July 2014

Information and Network Security

Time: 3 hrs.

Max. Marks: 100

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

PART – A

- 1 a. Describe an EISP and its components. (10 Marks)
- b. With a neat diagram, explain briefly the major steps in contingency planning. (10 Marks)
- 2 a. Discuss the different generations of firewalls. (06 Marks)
- b. Explain the important points for selecting the right firewall. (04 Marks)
- c. Explain the implementation of Virtual Private Networks (VPN) in different method. (10 Marks)
- 3 a. Explain the advantages and disadvantages of NIDPS. (10 Marks)
- b. Describe the different IDPS detection methods. (10 Marks)
- 4 a. Explain Vernam Ciphere with an example. (10 Marks)
- b. Discuss the tools that are used in cryptography. (10 Marks)

PART – B

- 5 a. Explain briefly OSI security architecture. (12 Marks)
- b. Discuss the difference between Kerberos version 4 and Kerberos version 5. (08 Marks)
- 6 a. With a neat diagram, explain the overview of Kerberos. (10 Marks)
- b. Explain the procedure along with diagram to implement confidentiality in PGP. (10 Marks)
- 7 a. Explain the architecture of the IPSec, also discuss the role of security associations. (10 Marks)
- b. Describe how Authentication Header is implemented in Transport and Tunnel modes with a neat diagram. (10 Marks)
- 8 a. Explain session state parameters and connection state parameters in detail. (10 Marks)
- b. Discuss the components of a SET with diagram. (10 Marks)

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