USN ☐☐☐☐☐☐☐☐☐☐   10CS/IS835

Eighth Semester B.E. Degree Examination, Dec.2015/Jan.2016
Information and Network Security

Time: 3 hrs.   Max. Marks:100

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

PART – A

1 a. Explain issue specific security policy and discuss various elements of ISSP in detail.
                                                                    (10 Marks)
   b. Explain disaster recovery planning in continuity strategies.   (10 Marks)

2 a. What is firewall? Explain different firewalls based on architectural implementation.
                                                                    (10 Marks)
   b. What is VPN? Explain different implementations of VPNs.   (10 Marks)

3 a. Discuss various strengths and limitations of IDS.   (06 Marks)
   b. Explain signature based IDS and application based IDS.   (06 Marks)
   c. Briefly explain different control strategies of IDS.   (08 Marks)

4 a. Explain different types of transposition ciphers with examples. (10 Marks)
   b. Explain public key infrastructure in detail.   (10 Marks)

PART – B

5 a. Discuss the various aspects of security and explain different types of security attacks.
                                                                    (10 Marks)
   b. With a neat diagram, explain the model of network security and network access security.
                                                                    (10 Marks)

6 a. With the help of a schematic diagram, explain Kerberos version 4 authentication. (08 Marks)
   b. Difference between Kerberos V4 and Kerberos V5.   (04 Marks)
   c. With a neat sketch, explain how PGP message is generated.   (08 Marks)

7 a. Explain the general procedures for S/MME message preparation.   (10 Marks)
   b. Describe how ESP is implemented in transport and tunnel modes with a neat diagram.
                                                                    (10 Marks)

8 a. Briefly explain the basic combinations of security association with diagrams. (10 Marks)
   b. Explain SSL architecture.   (10 Marks)

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