USN

Second Semester M.Tech. Degree Examination, June/July 2015 Information and Network Security

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions.

1	a. b. c.	Explain play fair cipher with an example. Also state rules to be followed in detail. Discuss Fiestal architecture in detail. Describe the effects of avalanche in DES.	(08 Marks) (08 Marks) (04 Marks)
2	a. b. c.	Discuss the design criteria of function F. Explain the public key encryption model with a neat diagram. Bring out the differences between symmetric and asymmetric cryptography.	(06 Marks) (08 Marks) (06 Marks)
3	a. b. c.	Describe RSA algorithm with an example. Explain Diffie – Hellman key exchange procedure. Discuss ECC over a real number.	(06 Marks) (06 Marks) (08 Marks)
4	a. b. c.	Describe public –key authority method of key distribution. What are the differences between Kerberos Version 4 and Version 5? Write a note on federated indentify management.	(08 Marks) (08 Marks) (04 Marks)
5	a. b.	Discuss threats in wireless networks. Explain SSL architecture with a neat diagram in detail.	(10 Marks) (10 Marks)
6	a. b. c.	Bring out the companion of threats a web security. Explain with a diagram how authentication and Confidentiality are implement services. Discuss the structure of RFC 822.	(06 Marks) ed in PGP (10 Marks) (04 Marks)
7	a. b.	Write the IP the architecture with diagram in detail. Also discuss IP the services. Explain the header of the ESP with a neat diagram. Discuss the importance of pad-	(10 Marks) ding. (10 Marks)
8	a. b. c. d.	Write short notes on: PRNG Mutual authentication X·509 certificate IEEE802 wireless architecture.	(20 Marks)

* * * * *