Printed Pages: 3 Paper ID: 2289951 (Following Paper ID and Roll No. to be filled in your Answer Books) Roll No. NIT-701

B.TECH.

Regular Theory Examination (Odd Sem - VII), 2016-17

CRYPTOGRAPHIC AND NETWORK SECURITY

Max. Marks: 100

Note: Attempt all Sections. If required any missing data; then choose suitably.

SECTION-A

Attempt all questions in brief.

(10×2=20)

Explain field with example What are the different security attacks

What is message authentication code

Explain Intrusion detection.

Explain email security Differentiate between virus and firewalls

Differentiate between public key and private key

What are the different security mechanism

What is IP security. What is Kerberos

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Attempt any three of the following: SECTION-B

 $(3\times10=30)$

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What is Ideal Block Cipher

Explain Shannon Principle of confusion and Diffusion

code with suitable diagrams. Discuss the basic use of Message authentication Explain Chinese remainder theorem with example

What are the different security threats. What is Explain Diffie - Hellman key Exchange

Explain DES with diagram.

Attempt any one part of the following: (1×10=10)

SECTION-C

Attempt any one part of the following: $(1\times10=10)$ Explain different block cipher mode of operation

State and prove Euler theorem.

Explain RSA using example

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Attempt any one part of the following: $(1\times10=10)$ Write the objective of HMAC. Describe the HMAC

Explain Elgamal Digital signature scheme.

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Attempt any one part of the following: (1×10=10)

6.

Explain PGP and S/MIME

Explain X.509 in detail.

Attempt any one part of the following: (1×10=10)

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Explain the ESP format. What is anti replay service

Discuss Secure Electronic Transaction (SET)

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