

Code No: C7709**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.Tech I - Semester Examinations March/April-2011
NETWORK SECURITY AND CRYPTOGRAPHY
(EMBEDDED SYSTEMS AND VLSI DESIGN)****Time: 3hours****Max.Marks:60****Answer any five questions
All questions carry equal marks**

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1. a) With a neat diagram explain the symmetric Cipher Model.
b) Briefly explain play fair Cipher with an example. [12]
2. Explain RC5 Algorithm. [12]
3. a) What is the difference between Link and end – to –end encryption?
b) Briefly explain Diffie – Hellman Key Exchange. [12]
4. a) State Euler's Theorem. Find gcd (1970, 1066) using Euclid's Algorithms.
b) Write short notes on Message Authentication Codes. [12]
5. Explain secure Hash Algorithm. [12]
6. a) What problems was Kerberos designed to address?
b) What are the functions provided by S/MIME? Explain. [12]
7. Explain IP sec document with a neat diagram. [12]
8. a) What are typical phases of operation of virus or worm.
b) Write short notes on application – Level gateway. [12]
