R09

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
- - -

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]

****