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Code No: A4007
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.Tech I Semester Examinations, March/April 2011
NETWORK SECURITY & CRYPTOGRAPHY
(INFORMATION TECHNOLOGY)

Time: 3hours   **Max.Marks:60**

Answer any five questions
All questions carry equal marks
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1.a. Explain the model for network security
 b. What is the difference between a mono alphabetic cipher and poly alphabetic cipher?
                                                                              [12]

2.a. Write an algorithm of Triple DES
 b. What are the characteristics of Advanced Symmetric block cipher?   [12]

3.a. Explain about the Chinese remainder theorem.
 b. Describe how the hash function value is generated in hash function.   [12]

4.a. Explain how authentication is provided by PGP.
 b. Explain about the message digest algorithm.   [12]

5. Describe the various types of viruses.   [12]

6. a. Describe about the Elliptic curve cryptography.
  b. Explain the principles of Block cipher.   [12]

7.a. Explain about the Fermat's algorithm.
 b. Describe about the standards of digital signature.   [12]

8.a. What are the requirements of Web Security?
 b. List and briefly explain the passive and active security threats.   [12]

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