R09

Code No: D0606

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH II - SEMESTER EXAMINATIONS, APRIL/MAY 2012
NETWORK SECURITY AND CRYPTOGRAPHY
(DIGITAL SYSTEMS & COMPUTER ELECTRONICS)

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

Answer any five questions
All questions carry equal marks

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1.a) What are the principal ingredients of symmetric cipher? Explain.
b) Give a brief account on classical encryption techniques.

2.a) Explain RC5 algorithm.
b) What are the characteristics of Advanced Symmetric block cipher?

3.a) Briefly explain Modular arithmetic concept.
b) Explain Triple DES algorithm.

4.a) What types of attacks are addressed by message authentication?
b) Write short notes on MAC.

5.a) What are the applications of IPSec?
b) Explain the Encapsulation Security Payload with a neat diagram.

6.a) List and briefly define the parameters that define an SSL session state.
b) Write notes on SET.

7.a) List and briefly define three classes of Intruders.
b) Write short notes on SNMPv3.

8.a) What are the design goals of a firewall? Explain the packet-filtering router.
b) Give a brief account on Trusted Systems.

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