

Code No: 56030

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD**B. Tech III Year II Semester Examinations, December-2014/January-2015****NETWORK SECURITY****(Common to CSE, IT)****Time: 3 hours****Max. Marks: 75****Answer any five questions
All questions carry equal marks**

1. Write a brief notes on:
 - a) Security Services
 - b) ARP attacks and Route Table Modification
 - c) Man-in-the-Middle Attacks.

- 2.a) What are the different key distribution Approaches of Message Authentication? Explain.
 - b) What are the differences between Secure Hash Functions and HMAC?

- 3.a) Explain Kerberos version 4 protocol in detail.
 - b) Write notes on X.509 Directory Authentication Service.

- 4.a) Explain Authentication Header with a neat diagram.
 - b) Write notes on S/MIME.
 - c) Write notes on Oakley key determination protocol.

- 5.a) What are the challenges that web security has to face when compared with computer and network security?
 - b) Explain TLS in detail.

- 6.a) Write notes on SNMPv3.
 - b) Define Viruses and explain different types of Viruses in detail.

- 7.a) List four techniques used by Firewalls to control access and enforce a security policy.
 - b) Explain Application-level gateway with a neat diagram.
 - c) What is a reference monitor? What properties are required for a reference monitor?

8. Write notes on:
 - a) RSA
 - b) Trusted Systems
 - c) Intrusion Detection Systems.