Code No: 56030

R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD
B. Tech III Year II Semester Examinations, May - 2015
NETWORK SECURITY
(Common to CSE, IT)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks
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1.a) Define Authentication, Confidentiality, Non-repudiation, and Availability.
 b) Write notes on route table modification and UDP Hijacking.   [5+10]

2. Explain cipher block modes of operation with neat diagrams.   [15]

3.a) What requirements must a public key cryptosystem fulfill to be a secure algorithm?
 b) Define digital signature, digital certificate. What are the advantages of digital signature, digital certificate?   [7+8]

4. Explain PGP in detail.   [15]

5.a) Explain IPSec Document Overview with a neat diagram.
 b) Explain about different payload types of ISAKMP.   [7+8]

6.a) List and briefly define the parameters that define an SSL connection state.
 b) What services are provided by SSL record Protocol?
 c) List and define the principal categories of SET participants.   [4+4+7]

7.a) What are the two common techniques used to protect a password file?
 b) What is the role of encryption and compression in the operation of a Virus?
 c) List and briefly explain about types of intruders.   [4+6+5]

8.a) List four techniques used by a Firewall to control access and enforce a security policy.
 b) Briefly explain access control list and capability ticket.   [8+7]

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