END TERM EXAMINATION

SIXTH SEMESTER [BCA] MAY-JUNE 2017

Paper Code: BCA 314	**Subject: Computer Network & Information Security**
Time : 3 Hours	**Maximum Marks :75**

Note: Attempt any five questions including Q.No.1 which is compulsory.

Q1. a) Explain Confidentiality, Integrity, availability in respect to Information Security. **(5)**

    b) Differentiate between Symmetric and Asymmetric Key Cryptography. **(5)**

    c) Explain IP spoofing and Mail spoofing. **(5)**

    d) Explain the sue of proxy server and Firewall. **(5)**

    e) Define Virus, Worms and Trojan Horses. **(5)**

Q2. a) Using RSA public key cryptosystem with a=1, b=2, etc., if p=13 and q=31 and d=7, find e. **(6.25)**

    b) Differentiate between Digital Signature and Cryptography. Explain the use of Digital Signature. **(6.25)**

Q3. Explain the following attacks in detail. **(12.5)**

    a) Dos

    b) Malware Attack

    c) Logic Bob Attack

Q4. What is Hash function and its significance. Explain any two algorithms used for evaluating Hash value. **(12.5)**

Q5. Explain the following problems of Network Security. **(12.5)**

    a) TCP Session Hijacking

    b) Sequence Guessing

    c) Smurf Attack

Q6. a) Describe the TCP/IP security architecture with neat diagram. **(6.25)**

    b) How VPN is more secured than any other Network Infrastructure. Explain in detail. **(6.25)**

Q7. a) What is Firewall? Explain the various types of Firewall configuration with relevant diagram. **(6.25)**

    b) Differentiate between Router, Bridge and Gateway. **(6.25)**

Q8. Write short notes on **any two**: **(6.25x2=12.5)**

    a) Block and Stream Ciphers

    b) Network Scanning

    c) Bastion Host

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