Dr. Hemraj Saini

Roll No.: _____

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -1 EXAMINATION- October 2018
M.Tech. I Semester

COURSE CODE: 10M1WCI131   MAX. MARKS: 25

COURSE NAME: System and Network Security Techniques

COURSE CREDITS: 3   MAX. TIME: 1.5 Hrs

Note: *All questions are compulsory.*

Que.1: *[CO3; 3 Marks]* What do you understand by static code analysis and dynamic code analysis? Which one is better? Provide your arguments with the support of an example.

Que.2: *[CO5; 3 Marks]* Explain the device level security in a network. Also provide a structure for full high-available networks and explain it.

Que.3: *[CO5; 4 Marks]* Define and explain the following terms/statements-

    a. Intranet
    b. Extranet
    c. DMZ
    d. Outbound port filtering

Que.4: *[CO6; 4 Marks]* Define and elaborate the following terms *wrt* network device security-

    a. ARP poisoning
    b. Link state routing protocol
    c. Split horizon
    d. Proxy ARP

Que.5: *[CO5; 2 Marks]* (I) Write down the strength and weaknesses of firewall. "The Firewall is Dead, Long Live the Firewall.", explain the statement in detail.

(II) *[CO5; 2 Marks]* Explain NAT and PAT with example.

Que.6: *[CO4; 3 Marks]* What is VPN? Write down the names of vender-specific VPN protocols. Also explain at least one VPN protocol in detail.

Que.7: *[CO6; 4 Marks]* Write notes on the following terms-

    a. FHSS
    b. DSSS