[A-83] **SARDAR PATEL UNIVERSITY**
M. Sc. (Information Technology)
Semester – III External Examinations
PS03CINT03 Information Security
25th April, 2015

Time: 2:30 p.m. to 5:30 p.m.   Max Marks: 70

Q1. **Choose the most appropriate option for each question.**   [8]

a. The _____ file keeps track of each user's login time and each user's originating destination.
   A)   WTMP   C)   lastlog
   B)   UTMP   D)   None of these

b. The _____ command displays useful information regarding the state of the TCP/IP network traffic running to and from the host computer.
   A)   netstat   C)   A and B both
   B)   ps   D)   None of these.

c. _____ can be an effective means of protecting a local system or network of systems from network-based security threats while at the same time affording access to the outside world via WAN and the Internet..
   A)   Firewall   C)   MAN
   B)   LAN   D)   None of these

d. _____ can provide a way to prove that a document came from someone even if they try to deny it.
   A)   Non-repudiation   C)   A and B both
   B)   Authentication   D)   None of these

e. In _____ encryption, a single key is used to encrypt and decrypt information..
   A)   Public key   C)   A and B both
   B)   Secret key   D)   None of these

f. DES stands for_____ .
   A)   Data Encryption Standard   C)   Destination Encryption Standard
   B)   Decision Encryption Standard D)   None of these

g. _____ logon occurs when a user logs into an account stored in the domain user account database.
   A)   Domain   C)   Trusted Domain
   B)   Local   D)   None of these

h. Processors have _____ that hold information that the processor use to store the current state of the system.
   A)   Mouse   C)   Registers
   B)   Keyboard   D)   None of these

Q2. Answer the following questions (Any Seven): [14]
a. Define the terms: Cryptosystem, Encryption
b. What is cipher text? Explain it taking suitable example.
c. What is subnet and special address?
d. Discuss components of firewall in brief.
e. What is Cryptanalysis? Explain it in short.
f. Explain in brief about SSL.
g. Explain in brief about symmetric cryptography.
h. Discuss about IIS web server in brief.
i. Explain the term Proxy server.

Q3. Answer the following questions:
a. What do you mean by TCP Daemons? Explain ANY FOUR daemons in detail. [6]
b. Discuss various characteristics of firewall. [6]
OR
b. Write a short note on IP Spoofing. [6]

Q4. Answer the following questions:
a. List and explain various types of firewall. [6]
b. Discuss about digital signatures in details. [6]
OR
b. Explain asymmetric cryptography in detail. [6]

Q5. Answer the following questions:
a. Explain in detail what is the use of PGP. [6]
b. Discuss key management in detail. [6]
OR
b. Discuss Intranet related features of NT. [6]

Q6. Answer the following questions:
a. Explain about security for network logon and authentication. [6]
b. Write a short note on Unix security. [6]
OR
b. Explain various features of Java. [6]

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