# SARDAR PATEL UNIVERSITY
## Masters in Information Technology (IT)

### III Semester Examination – 2012

### Subject: PS03CINT03 (Information Security)

### Wednesday, 5-December-2012

Time: 10:30 a.m. to 01:30 p.m.

Max. Marks: 70

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**Q-1    Answer the following**                                                                            [08]

1)    _____ is a based on algorithm that scrambled information into unreadable from.
    a) Encryption                b) Decryption
    c) Data Hiding              d) None of These

2)    DES stands for a_____.
    a) Data Encryption Standard     b) Data Encryption Service
    c) Data Encoding Standard       d) none of the above

3)    Which of these not available in java from C++?
    a) Pointers              b) Constructor
    c) Inheritance           d) Class

4)    Which of the command is used to Generate your unique public /secret key pair?
    a) pgp kg              b) pgp ka
    c) pgp kx              d) pgp kv

5)    Which is the range of the Class C address?
    a) 1 to 127            b) 128 to 191
    c) 192 to 233          d) 233 to 253

6)    What is the default netmask of the Class B?
    a) 255.255.0.0          b) 255.0.255.0
    c) 255.0.0.0            d) 255.255.255.0

7)    _____ enables the recipient of a message to authenticate the sender of a message and verify that the message is intact as it was sent.
    a) Digital Signature       b) Authentication
    c) Authorization         d) Encryption

8)    The address value can consist of a hostname that is found in _____.
    a) /etc/hosts          b) /etc/protocols
    c) /etc/eathers        d) /etc/networks

**Q-2** Answer Following Questions (Any Seven) [14]
   1) What are the different versions of Windows NT? Explain in brief each.
   2) List changes of JAVA from C++.
   3) What is Encryption and Crypt Analysis?
   4) Define Symmetric and Asymmetric Cryptography.
   5) Give the brief idea about the function for lastlog and syslog audit trail.
   6) List the Sniffing Threatens Security ways.
   7) What is Sniffing and Spoofing?
   8) Explain in brief about PGP Trust.
   9) Explain Domain and Domain Controller in Windows NT.

**Q-3 A** Explain following commands: [06]
   i) dig
   ii) ping
**Q-3 B** Explain Network Configuration Files commands. [06]
                              OR
**Q-3 B** Explain System Daemons in details. [06]

**Q-4 A** What is firewall? Explain different types of firewalls. [06]
**Q-4 B** Explain Ceaser Cipher and Mono Alphabetic Algorithm. [06]
                              OR
**Q-4 B** Write a note on Vignere Encryption algorithm. [06]

**Q-5 A** Explain steps for Generating PGP Keys. Explain PGP Key Rings. [06]
**Q-5 B** Write a note on Proxy Server and explain its features. [06]
                              OR
**Q-5 B** Explain IDEA Algorithm in detail. [06]

**Q-6 A** Explain Challenge & Response logon model in detail. [06]
**Q-6 B** Explain Role, User Accounts, Groups, Rights, Permission with respect to Windows NT. [06]
                              OR
**Q-6 B** Explain JAVAs Object Oriented and High Performance Functionalities. [06]

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