

[28]

M.Sc. (Information Technology) SEMESTER-III

PS03CINT03 – Information Security

Monday, 16<sup>th</sup> April 2018

Time: 10:00 A.M. To 01:00 P.M.

Total Marks: 70

Q.1 Give answers of following Multiple choice questions:

[8]

1. Default mask of class B is \_\_\_\_\_.  
a. 255.0.0.0    b. 255.255.0.0    c. 255.255.255.0    d. 255.255.255.255
2. The \_\_\_\_\_ file provides a list of IP addresses & names of networks on the Internet.  
a. /etc/services    b. /etc/ethers    c. /etc/networks    d. /etc/protocols
3. What is the act of providing wrong source address in an IP packet called?  
a. Sniffing    b. Firewall    c. VPN    d. Spoofing
4. DES stands for \_\_\_\_\_.  
a. Data Encryption Service    b. Data Encoding Standard  
c. Data Encryption Standard    d. None of these
5. \_\_\_\_\_ is the art of hiding a message within another, or making a message unreadable to all but the intended party.  
a. Decryption    b. Authentication    c. Digital Sign    d. Encryption
6. What is the most common use of PGP?  
a. Hiding messages    b. Securing messages  
c. Sending files    d. Hiding files
7. Kernel mode software component that checks whether a user has permission to access an object is called \_\_\_\_\_.  
a. SAM    b. SRM    c. LSA    d. None of these
8. The size of IPV4 address is \_\_\_\_\_ bits  
a. 64    b. 32    c. 16    d. 128

Q.2 Do as directed (Any Seven)

[14]

1. Explain Ceaser Cipher with an example.
2. Explain IP Spoofing.
3. Give the full forms of DHCP and DNS.
4. Define: Authentication & Integrity
5. Difference between public key and private key.
6. Discuss in brief how Java differ from C++.
7. Explain in brief SSL.
8. List out IIS Security features.
9. Explain Hostname and Subnet.

[P.T.O.]

- Q.3 [A] Explain Addressing and its Classes in details. [6]  
[B] Explain network configuration files. [6]

OR

- [B] Explain networking commands. [6]

- Q.4 [A] List and explain different types of firewall. [6]  
[B] What are the steps to configure and setup PGP? Explain PGP Key Rings. [6]

OR

- [B] Explain asymmetric cryptography in detail. [6]

- Q.5 [A] Explain Role, User Accounts, Groups, Rights, Permission with respect to Windows NT. [6]

- [B] Write a short note of Unix security. [6]

OR

- [B] Explain security subsystem of Windows NT. [6]

- Q.6 [A] Explain Challenges and Response Logon model in detail. [6]

- [B] Write a note on network security reporting tool SATAN [6]

OR

- [B] Explain proxy server. [6]

