6th Sem / Branch : ComputerEngg. I.T.
Sub. : Network Security

Time : 3Hrs.   M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory   (10x1=10)

Q.1 Which is not an objective of network security?
a)   Identification   b)   Authentication
c)   Access   d)   Lock

Q.2 The process of verifying the identify of a user.
a)   Authentication   b)   Identification
c)   Validation   d)   Verification

Q.3 What is Cyber Security?
a)   Cyber security provides security against malware
b)   Cyber Security provides security against cyber terrorists
c)   Cyber security protects a system from cyber attacks
d)   All of the mentioned

Q.4 Which of the following is an adjective of network security?
a)   Confidentiality   b)   Integrity
c)   Availability   d)   All of the above

Q.5 Determining the decryption key for an intruder is extremely difficult even if the intruder has access to?
a)   Public Key
b)   Private Key
c)   Original Data
d)   Encrypted Data

Q.6 In asymmetric key cryptography, the private key is kept by_____.
a)   Sender
b)   Receiver
c)   Sender and receiver
d)   All the connected devices to the network

Q.7 Digital signature is a _____
a)   Digital id, send as an attachment to a web page/e mail / message
b)   is used for verifying the attachments send using web
c)   Both A and B
d)   None of these

Q.8 A firewall is installed at the point where the secure internal network and untrusted external network meet which is also known as _____
a)   Chock point   b)   Meeting point
c)   Firewall point   d)   Secure point

Q.9 Traffic in a VPN is not _____
a)   Invisible from public networks
b)   Logically separated from other traffic
c)   Accessible from unauthorized public networks
d)   restricted to a single protocol in IPSec

Q.10 Which of the following is not considered a natural disaster that can affect computer systems?
a) Flood
b) Falling water
c) Excessive heat
d) Fire

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Define Network security?
Q.12 Define cryptography?
Q.13 Define PGP?
Q.14 What is WORM?
Q.15 Define Ransomware?
Q.16 Define PAT?
Q.17 Define intrusion?
Q.18 What is cyber asset?
Q.19 What do you mean by VPN?
Q.20 Expand RAID?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 What is Network security? Why it is required.
Q.22 Differentiate between Active and passive attack?
Q.23 Explain various types of hackers in brief?
Q.24 Define a symmetric key cipher?
Q.25 Explain the concept of encryptions & decryption?

Q.26 Differentiate between symmetric and asymmetric key cryptography?
Q.27 What do you mean by Digital signature & Digital certification.
Q.28 What are various types of viruses? Discuss in brief?
Q.29 Explain any two antivirus program?
Q.30 Write down the various feature of IT Act 2000.
Q.31 What are Intrusion detection systems?
Q.32 Write a note on cyber security?
Q.33 Define VPN tunnel & VPN requirements.
Q.34 What is backup and why the need of backup?
Q.35 Discuss in brief the disposable policy?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 What is a Firewall? What are the types of Firewall? Also explain how it is deployed?
Q.37 What is a VPN? Explain its working and security provided by it.
Q.38 Explain the term RAID, Server Redundancy and clustering. What is the role of disk mirroring in RAID management.