



Sample Paper CS315 - need 315 file

Introcution to Network Security (Virtual University of Pakistan)



Scan to open on Studocu

Sample Paper
FINALTERM EXAMINATION
Fall 2022
CS315 – Network Security

Time: 90 min
Marks: 60

Question No: 1 (Marks: 01) - Please choose the correct option

IPSec is designed to provide security at the _____.

- A. Transport layer
- B. Network layer
- C. Application layer
- D. Session layer

Question No: 2 (Marks: 01) - Please choose the correct option

Which one of the following refers to the technique used for verifying the integrity of the message?

- A. Digital signature
- B. Decryption algorithm
- C. Protocol
- D. Message Digest

Question No: 3 (Marks: 01) - Please choose the correct option

_____ is the term used in computer security that only the authorized users are allowed to access the information.

- A. Integrity
- B. Authentication
- C. Confidentiality
- D. Availability

Question No: 4 (Marks: 01) - Please choose the correct option

In computing, _____ is a network security system that monitors and controls incoming and outgoing network traffic based on predetermined security.

- A. Spyware
- B. Spam
- C. Cookie
- D. Firewall

Question No: 5 (Marks: 01) - Please choose the correct option

A digital signature is used for _____.

- A. Compression
- B. IP Allocation
- C. Network Bridging
- D. Non-Repudiation

Question No: 6 (Marks: 01) - Please choose the correct option

What does DDOS stands for _____.

- A. Distinguished Denial of Service
- B. Duplicated Denial of Service
- C. Debugging Denial of Service
- D. Distributed Denial of Service

Question No: 7 (Marks: 01) - Please choose the correct option

Network layer firewall has two sub-categories as _____.

- A. State full firewall and stateless firewall
- B. Bit oriented firewall and byte-oriented firewall
- C. Frame firewall and packet firewall
- D. Network layer firewall and session layer firewall

Question No: 8 (Marks: 01) - Please choose the correct option

Malware is a software that _____.

- A. Protects your computer from viruses.
- B. May harm your computer.
- C. Guards your computer from spyware.
- D. is used for compressing the files.

Question No: 9 (Marks: 01) - Please choose the correct option

_____ is a computer program, deliberately created to damage data and hamper the performance of the computer.

- A. System Software
- B. Non-Repudiation
- C. Utility Software
- D. Computer Virus

Question No: 10 (Marks: 01) - Please choose the correct option

Which of the given is a key function of a firewall?

- A. Compression
- B. Encryption
- C. Monitoring
- D. Copying

Question No: 11 (Marks: 01) - Please choose the correct option

Which of the given is one of the types of a firewall?

- A. Packet Filtering Firewall
- B. Bits Filtering Firewall
- C. Screen Host Firewall
- D. Dual Host Firewall

Question No: 12 (Marks: 01) - Please choose the correct option

A process of making an encrypted text readable again is called _____.

- A. Compression
- B. Decryption
- C. Information Hiding
- D. Network Security

Question No: 13 (Marks: 01) - Please choose the correct option

A logical means of implementing IPsec is in a _____.

- A. Bridge
- B. Hub
- C. Repeater
- D. Firewall

Question No: 14 (Marks: 01) - Please choose the correct option

The information that gets transformed in encryption is _____.

- A. Plaintext
- B. Ciphertext
- C. Module
- D. Procedure

Question No: 15 (Marks: 01) - Please choose the correct option

A program designed to travel to and infect other computers is called as a(n) _____.

- A. Infector
- B. Torpedo
- C. Disease
- D. Virus

Question No: 16 (Marks: 01) - Please choose the correct option

Which of the given is a standard IANA port number used for requesting web pages?

- A. 20
- B. 53
- C. 80
- D. 21

Question No: 17 (Marks: 01) - Please choose the correct option

There are _____ types of wireless authentication methods.

- A. 2
- B. 3
- C. 4
- D. 5

Question No: 18 (Marks: 01) - Please choose the correct option

_____ is the protocol which is designed to create security associations, both inbound and outbound.

- A. CA
- B. SA
- C. KDC
- D. IKE

Question No: 19 (Marks: 01) - Please choose the correct option

Recognize the type of malwares from the given that hide themselves in various cycles of encryption and decryption.

- A. Trojans
- B. File Infectors
- C. Polymorphic Viruses
- D. Boot Sectors

Question No: 20 (Marks: 01) - Please choose the correct option

Which one of the following statements is True about a password?

- A. It must be changed only if it is compromised.
- B. It cannot contain special character and symbols.
- C. It must be registered with the system administrator.
- D. It should be changed regularly.

Question No: 21 (Marks: 01) - Please choose the correct option

An attack in which the site is not capable of responding the valid requests is _____.

- A. Smurfing
- B. Email-bombing
- C. Denial of Service Attack
- D. Phishing

Question No: 22 (Marks: 01) - Please choose the correct option

IKE creates SAs for _____.

- A. SSL
- B. PGP
- C. IPSec
- D. VP

Question No: 23 (Marks: 01) - Please choose the correct option

_____ network is used inside an organization only.

- A. Private
- B. Public
- C. Semi- Private
- D. Semi- Public

Question No: 24 (Marks: 01) - Please choose the correct option

Unsolicited Bulk E-mails (UBI) are called _____.

- A. SMS
- B. Spam Emails
- C. MMS
- D. Archived Emails

Question No: 25 (Marks: 01) - Please choose the correct option

Passwords enable users to _____.

- A. Make efficient use of time
- B. Get into the system quickly
- C. Retain Confidentiality of files
- D. Simplify file structures

Question No: 26 (Marks: 01) - Please choose the correct option

A _____ layer security protocol provides end-to-end security services for applications.

- A. Data Link
- B. Transport
- C. Network
- D. Physical

Question No: 27 (Marks: 01) - Please choose the correct option

_____ provides privacy for LANs that must communicate with each other through global Internet.

- A. VBN
- B. VNP
- C. VPN
- D. VPP

Question No: 28 (Marks: 01) - Please choose the correct option

_____ is one of the security protocols designed for the email-systems.

- A. HTTP
- B. DHCP
- C. PGP
- D. ARP

Question No: 29 (Marks: 01) - Please choose the correct option

Which one of the given not harms computer resources?

- A. Logic Bomb
- B. Virus
- C. Firewall
- D. Spyware

Question No: 30 (Marks: 01) - Please choose the correct option

_____ is an example of grabbing email information.

- A. Cookie Stealing
- B. Reverse Engineering
- C. Port Scanning
- D. Banner Grabbing

Question No: 31 (Marks: 01) - Please choose the correct option

_____ monitors user's activities in a system and transfers that information in the background to someone else.

- A. Boot Infector Virus
- B. Spyware
- C. Adware
- D. Logic Bomb

Question No: 32 (Marks: 01) - Please choose the correct option

Which type of ACL should be placed closest to the destination of traffic?

- A. Standard
- B. Extended
- C. Dependent
- D. Expanded

Question No: 33 (Marks: 01) - Please choose the correct option

The formal protocol that defines the MTA client server in the Internet is called as _____.

- A. SNMP
- B. FTP
- C. SMTP
- D. TELNET

Question No: 34 (Marks: 01) - Please choose the correct option

Most network threats originate from which of the following?

- A. Inside the company
- B. Script kiddies
- C. Backdoors
- D. Industrial spies

Question No: 35 (Marks: 01) - Please choose the correct option

In _____, an attacker collects an infected user's clicks.

- A. Cryptanalysis
- B. Clickjacking
- C. Spoofing
- D. Ransomware

Question No: 36 (Marks: 01) - Please choose the correct option

In an IDPS, specific indications of a possible attack are called _____.

- A. Signals
- B. Alerts
- C. Signatures
- D. True Positives

Question No: 37 (Marks: 01) - Please choose the correct option

An important aspect of a distributed firewall configuration is _____.

- A. Dynamic allocation of IP Addresses
- B. Segmentation of large IP packets
- C. Monitoring Security
- D. Compression of large sized IP Packets

Question No: 38 (Marks: 01) - Please choose the correct option

_____ is a directory lookup service that provides a mapping between the name of a host on Internet and its numeric IP address.

- A. ARP
- B. DNS
- C. FTP
- D. ICMP

Question No: 39 (Marks: 01) - Please choose the correct option

Firewall enforcement of policies is handled primarily through setting up packet-filtering rules, a set which is contained in the _____.

- E. Routing table
- F. Rule base
- G. Access control list
- H. Packet filter

Question No: 40 (Marks: 01) - Please choose the correct option

In the context of Malicious Software, Backdoor is also called as _____.

- A. Blackdoor

- B. Trapdoor
- C. Dangergate
- D. Reddoor

Question No: 41 (Marks: 03)

Differentiate among an application-level gateway and circuit-level gateway.

Answer

Question No: 42 (Marks: 03)

Describe any two main potential challenges of using Internet Key Exchange.

Answer

Question No: 43 (Marks: 03)

Suppose an organization wants to secure its communication setup by implementing IPsec Tunnel. You are required to briefly explain two main approaches which can be used for constructing IPsec Tunnel.

Answer

Question No: 44 (Marks: 03)

Briefly explain the usage of the command mentioned below:

R3(config-if)# no ip access-group 100 in

Answer

Question No: 45 (Marks: 03)

Mention any two main characteristics with respect to packet filtering firewalls.

Answer

Question No: 46 (Marks: 03)

Audit Record is one of the fundamental tools which are maintained to be used as an input for an Intrusion Detection System. You are required to discuss two fundamental plans in this regard.

Answer

Question No: 47 (Marks: 05)

In the context of Intrusion Techniques, briefly describe five techniques which the intruders can use / apply to learn user passwords.

Answer

Question No: 48 (Marks: 05)

Discuss DDOS attack and enlist three major lines of defense against such attacks.

Answer

Question No: 49 (Marks: 05)

NIST SP 800-177 recommends use of a variety of standardized protocols as a means for countering different threats related to Email Services. You are required to discuss four such protocols.

Answer

Question No: 50 (Marks: 05)

Following table contains some abbreviations of IEEE802.11i Keys for Data Confidentiality and Integrity protocols. You are required to write complete name of each of the given keys.

Abbreviation	Complete Name
--------------	---------------

AAA Key	
PSK	
PTK	
TK	
GMK	

Answer
