

Networks Fundamentals Exam (42)

- EXAM TIME FROM 9:00AM TO 9:30AM
- You must submit your answers before the end of time
- Online Search is not allowed
- It is not allowed to leave the exam room before the end of time
- GOOD LUCK

Name : *

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Geoinformatics

Branch *

Smart Village

Questions (35Q)

- Choose the best correct answer for each question
- You should submit your answers before the end of time (if not your answers will NOT be uploaded)
- GOOD LUCK

1-Which of the following terms are not valid terms for the names of the seven OSI layers? *

- ☐ Application
- ☐ Data link
- ☐ Presentation
- ☒ Internet



2-The process of a web server adding a TCP header to a web page, followed by adding an IP header, and then a data link header and trailer is an example of what? *

- ☒ Data encapsulation
- ☐ Same-layer interaction
- ☐ The OSI model
- ☐ All of these answers are correct.



3-In which class the IP address 92.168.1.1 exists? *

- ☒ Class A
- ☐ Class B
- ☐ Class C
- ☐ Class D



4-Which of the following is a weakness in an information system that an attacker might leverage to gain unauthorized access to the system or data on the system? *

- ☐ Risk
- ☐ Exploit
- ☐ Mitigation
- ☒ Vulnerability



5-You want to implement a mechanism that automates the IP configuration. Which protocol will you use to accomplish this? *

- ☐ DNS
- ☐ SNMP
- ☒ DHCP
- ☐ ARP



6-Which of the following connectivity device(s) typically work at the network layer of the OSI model? *

- ☐ Hubs
- ☒ Routers
- ☐ Switches
- ☐ Repeaters



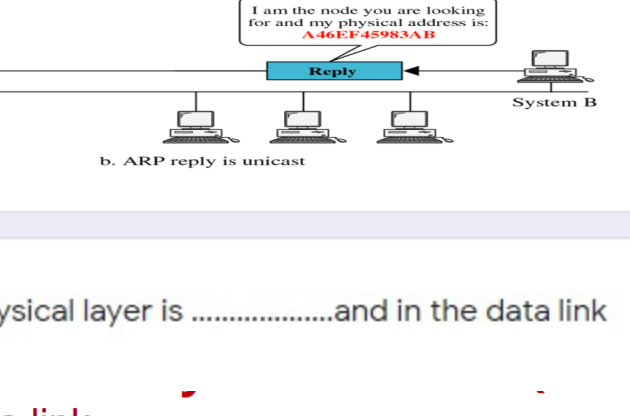
7-The protocol used to send emails from host to mail server is *

- ☐ IMAP4
- ☐ SEND
- ☐ SNMP
- ☒ SMTP



8-When we apply the command "ipconfig" on a MS Windows based computer, the output is *

- ☒ IP, Subnet Mask, and Default Gateway
- ☐ IP, Subnet Mask, DNS and MAC address
- ☐ IP, Subnet Mask, Default Gateway, DNS and MAC address
- ☐ Nothing or bad command



9-What is the name of the attack method that can be used to crack passwords? *

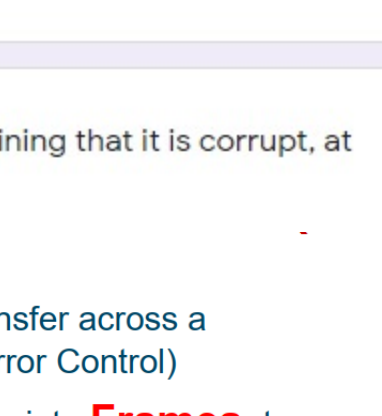
- ☐ DOS attack
- ☒ Brute force attack
- ☐ Smurf attack
- ☐ Spam

TYPES OF PASSWORD ATTACK

• Dictionary attack

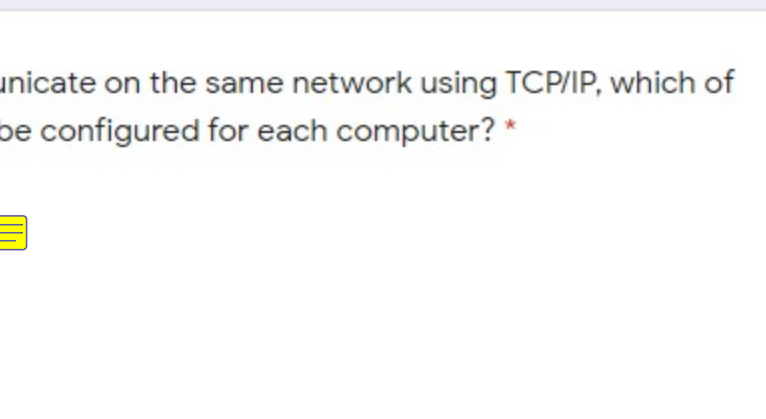
• Brute-force attack

• Hybrid attack



10-..... is used to map IP address into MAC address *

- ☐ ICMP
- ☒ ARP
- ☐ IGMP
- ☐ DNS



11-The unit of communication at the physical layer isand in the data link layer is *

- ☒ Bits, frames
- ☐ Frames, bits
- ☐ Segment, frames
- ☐ Bits, Packets

Data link

- Reliable data transfer across a physical link (Error Control)
- Organize the data into **Frames** to be put on the physical medium
- Check the Frame For errors
- Hop to hop addressing

12-Host A receives a frame and discard it after determining that it is corrupt, at which OSI layer are frame checked for errors? *

- ☐ Application Layer
- ☐ physical Layer
- ☐ Network Layer
- ☒ Data Link Layer

Data link

- Reliable data transfer across a physical link (Error Control)
- Organize the data into **Frames** to be put on the physical medium
- Check the Frame For errors
- Hop to hop addressing

13-For computers to communicate on the same network using TCP/IP, which of the following settings must be configured for each computer? *

- ☐ Default Gateway
- ☒ IP address
- ☐ Router
- ☐ DNS server address



14-In case you have a little inbox storage which of the following protocols can be used in e-mail service to keep your storage on the mail server always available? *

- ☐ IMAP4
- ☒ POP3
- ☐ SMTP
- ☐ Outlook

- POP3 "Post Office Protocol version 3"
- In order to **receive** email messages from the Mail Server, the Email Client connects the Mail Server.
- Download messages on the hard disk

15-Which layer of the OSI model is responsible for data encoding? *

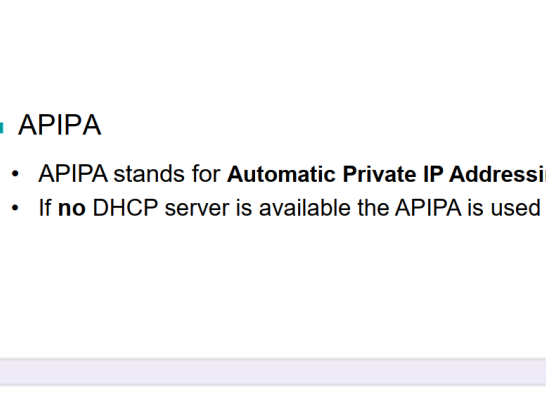
- ☐ Application Layer
- ☒ Presentation Layer
- ☐ Network Layer
- ☐ Data Link Layer

Presentation Layer

- Finding common presentation between source and Destination
- ensures that the information that the application layer of one system sends out is readable by the application layer of another system. (support standardized application interface)
- Provide transformation of data (Encoding and Decoding Sender to Common format on Sending)

16-A DNS is needed to map *

- ☐ Network address into a MAC address
- ☒ Network address into a domain name
- ☐ Computer name into a MAC address
- ☐ Domain name into a MAC address.



17-TCP stands for: *

- ☐ Telecommunication Control Protocol
- ☒ Transmission Control protocol
- ☐ Transport Control Protocol.
- ☐ Traffic Connection Protocol.

TCP Characteristics

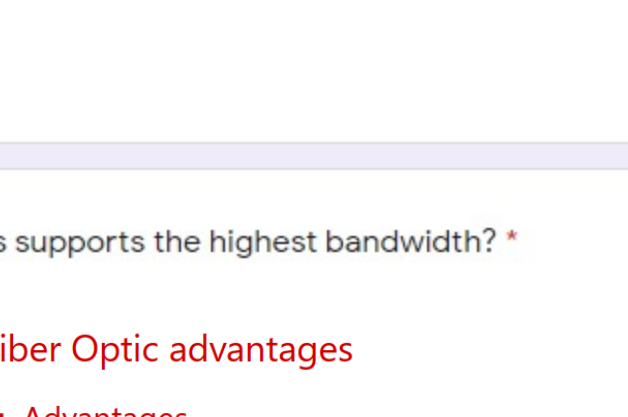
- TCP (Transmission Control Protocol)

18-If the default gateway is configured incorrectly on the host, what is the impact in communications? *

- ☐ the host is unable to communicate on the local network
- ☒ the host can communicate with others on the local network, but is unable to communicate with hosts on remote networks
- ☐ the host can communicate with others on the remote network, but is unable to communicate with hosts on local networks
- ☐ there is no impact on communication

19-TCP usefor connection establishment *

- ☒ Three way handshake
- ☐ Four way handshake
- ☐ Two way handshake
- ☐ Nothing



20-What information is added during encapsulation at OSI layer 4? *

- ☒ source and destination MAC address
- ☐ source and destination IP address
- ☒ source and destination port number
- ☐ source and destination application protocol.

21-What actions does the host do when the DHCP server is down? *

- ☐ It will have the same IP
- ☐ It will haven't any IP
- ☒ It will use APIPA range
- ☐ it will show an error

- APIPA
- APIPA stands for **Automatic Private IP Addressing**
- if no DHCP server is available the APIPA is used

22-The loopback address can be used to send a packet from the to *

- ☐ Host; all other hosts
- ☐ Router; all other hosts
- ☐ Host; a specific host
- ☒ Host; itself

Loop back Address

- Loopback address: It is used just for testing

23-What is the command used to view the ARP cache on my PC? *

- ☒ ARP -a
- ☐ ARP -c
- ☐ ARP -s
- ☐ ARP -print

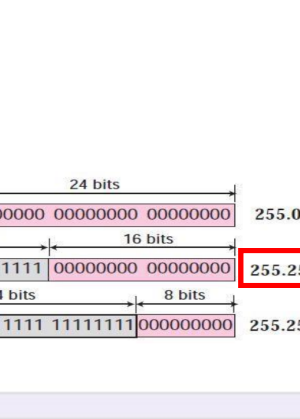
ARP (ADDRESS RESOLUTION PROTOCOL)

Arp -a

24-To test the IP stack on your local host, which IP address would you ping? *

- ☐ 127.0.0.0
- ☐ 1.0.0.127
- ☒ 127.0.0.1
- ☐ 255.255.255.255

- Ping itself
- Ping others you to check connectivity with other devices
- Ping to test your OSI stack
- Try to ping 127.0.0.1
- Ping 127.0.0.1
- Ping 127.0.0.1



25-Which of the following cable types supports the highest bandwidth? *

- ☐ Coaxial
- ☐ wireless
- ☒ Fiber Optic
- ☐ UTP

Fiber Optic advantages

- Advantages
- Faster than twisted pair and coaxial
- Send data as light pulses over glass medium
- Free of electromagnetic interference
- Highly resistance to Eavesdropping
- Support extremely high data transfer rate
- Allow greater cable distances without repeater

26-..... ensures that information is not revealed to unauthorized persons *

- ☒ Confidentiality
- ☐ Integrity
- ☐ Accountability
- ☐ Availability

- Confidentiality
- Ensuring that information is not revealed to unauthorized persons

27-Which range of ports numbers identifies all well-known applications: *

- ☐ 0 to 255
- ☒ 0 to 1023
- ☐ 1024 to 2047
- ☐ 256 to 1022

- Well Known ports
- permanent used numbers.
- Range from 0 to 1,023 are assigned and controlled by ICANN

28-Identify which of the services below use both TCP and UDP ports. *

- ☐ FTP
- ☒ DNS
- ☐ SSH
- ☐ Telnet

29-The TCP/IP Protocol Suite model consists from Layers? *

- ☐ 3
- ☒ 4
- ☐ 7
- ☐ 9

30-The default mask for Class B network is: *

- ☐ 255.255.255.255
- ☐ 255.255.255.0
- ☒ 255.255.0.0
- ☐ 255.0.0.0

31-We must use a domain name server to connect to internet *

- ☐ TRUE
- ☒ False

32-When using POP3 protocol, Internet connection is needed all the time *

- ☐ True
- ☒ False

- POP3 "Post Office Protocol version 3"
- In order to **receive** email messages from the Mail Server, the Email Client connects the Mail Server
- Download messages on the hard disk
- You can delete them

33-Sequence number is a mechanism used by TCP to provide flow control as segment travel from source to destination *

- ☒ True
- ☐ False

34-You are the administrator of publicly accessible web server. Can you assign the IP address 10.213.214.215 to the server? *

- ☐ True
- ☒ False

35-SSH protocol uses port 21 *

- ☐ True
- ☒ False

FTP uses Ports 20 & 21

SSH uses Port 23

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