Networks Fundamentals Exam (42)

- Enter THE FIRSTS COME FIRST TO EDIT
- The Green colors are answers before the end of time
- Red colors are wrong answers
- It is not allowed to leave the exam room before the end of time
- GOOD LUCK

Name: *

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Questions (35)

Choose the best correct answer for each question
You should submit your answers before the end of time (if not your answers are 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 an IP header, and then a data link header and trailer is an example of: *

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

3- In which class the IP address 92.168.17.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
- DHCP
- **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 ..... *

- IMAPX
- SEND
- SNMP
- **SMTP**

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

```
Windows IP Configuration

   Host Name . . . . . . . . . . . . : DESKTOP-PC
   Primary Dns Suffix  . . . . . . . :
   Node Type . . . . . . . . . . . . : Hybrid
   IP Routing Enabled. . . . . . . . : No
   WINS Proxy Enabled. . . . . . . . : No

Ethernet adapter Local Area Connection:

   Connection-specific DNS Suffix  . :
   Description . . . . . . . . . . . : Realtek PCIe GBE Family Controller
   Physical Address. . . . . . . . . : 00-1C-C0-A6-2A-DD
   Dhcp Enabled. . . . . . . . . . . : Yes
   Autoconfiguration Enabled . . . . : Yes
   IP Address. . . . . . . . . . . . : 192.168.1.2
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.1.1
   DHCP Server . . . . . . . . . . . : 192.168.1.1
   DNS Servers . . . . . . . . . . . : 192.168.1.1
   Primary WINS Server . . . . . . . : 192.168.1.1
   Lease Obtained. . . . . . . . . . : Monday, April 11, 2011 12:00:00 AM
   Lease Expires . . . . . . . . . . : Monday, April 11, 2011 12:00:00 AM
```

- **IP Subnet Mask, and Default Gateway**
- IP, Subnet Mask, DNS and MAC address
- IP, Subnet Mask, Default Gateway, DNS and MAC address
- Nothing is 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

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

- ICMP
- **ARP**
- UDAP
- DNS

is an protocol

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

- **Bits, frames**
- Frames, bits
- Segment, frames
- Bits, Packets

Data link

1. **Reliable data transfer across a physical link** (Error Control)
2. Organize the data into **Frames** to be put on the physical medium
3. Check the Frame For errors
4. **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

1. **Reliable data transfer across a physical link** (Error Control)
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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 bitcoin storage which of the following protocols can be used in e-mail service to keep your storage on the mail server always available? *

- IMAPX
- **POP3**
- SMTP
- Outlook

POP3 "Post Office Protocol version 3"

- It lets a client access mail messages from the mail server on a TCP/IP connection.
- 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

- Floating unknown presentation between different computer platforms
- ensures that the information that the application layer of one system sends out is readable by the application layer of another system. (encoding / decoding)
- Translation between protocols
- Provide transformation of data into a standard format (Character Control Normal or Binary)

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 the local network
- there is no impact on communication

19- TCP use ..... for connection establishment *

- **Three way handshake**
- Four way handshake
- Two way handshake
- Nothing

TWO RF METHOD

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 haveno1 any IP
- **it will use APIPA range**
- it will drop an error

APIPA

- **APIPA stands for Automatic Private IP Addressing**
- **Fast DHCP server is possible for 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 second host**
- **Host, Host**

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 -d
- ARP -g/arp

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

```
C:\>ping 127.0.0.1

Pinging 127.0.0.1 with 32 bytes of data:

Reply from 127.0.0.1: bytes=32 time<1ms TTL=128
Reply from 127.0.0.1: bytes=32 time<1ms TTL=128
Reply from 127.0.0.1: bytes=32 time<1ms TTL=128
Reply from 127.0.0.1: bytes=32 time<1ms TTL=128

Ping statistics for 127.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

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

- Coaxial
- wireless
- **Fiber Optic**
- UTP

Fiber Optic advantages

- **Advantages**
- Very high bandwidth, minimal size and cost
- Very low attenuation, light passes over glass medium
- Very low error rate, immune to electromagnetic interference
- Ideal for long distance, high bandwidth, secure
- **Disadvantages: high cost, fiber cable can be broken, hard to splice, requires special equipment**

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

- **Well known ports**
- Range from 0 to 1023 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? *

- 1
- **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 PCP3 protocol, Internet connection is needed all the time *

- True
- **False**

NO! You Will Use Future cards !

- Cards can be used for future use
- **Internet connection is needed for the cards to be used**

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 10.253.254.215 to the server? *

- True
- **False**

35- SSH protocol uses port 21 *

- True
- **False**

FTP uses Ports 20 &21
SSH uses Port 25

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