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

○ Data encapsulation

○ Same-layer interaction

○ OSI model

○ All of these answers are correct.

2.What information is added during encapsulation at OSI layer 4? *

○ source and destination MAC address

○ source and destination IP address

○ source and destination application protocol.

○ source and destination port

3.Availability is considered one of the security goals and it means ensuring that   *
illegitimate users are not denied access to information and resources.
  legitimate

○ True

○ False

4.Which of the following terms are not valid terms for the names of the seven OSI *
layers?

○ Application

○ Data link

○ Presentation

● Internet

5.A hash can be used to provide confidentiality of data *

○ true

● false

6.In which class the IP address 92.168.1.1 exists *

● Class A   1:126

○ Class B   128:191

○ Class C   192:223

○ Class D

7.An intrusion detection system (IDS) is primarily designed to perform what   *
function?

○ Test a system for vulnerabilities

● Detect abnormal activity

○ Rate system performance

○ Detect system failures

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

○ DNS

○ SMTP

○ DHCP

○ ARP

9.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?

○ Vulnerability

○ Mitigation

○ Exploit

○ Risk

10.Which of the following usually observe each activity of the victim, gather all *
information in the background, and send it to someone else?

○ Spyware

○ Malware

○ Adware

○ None

11.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

12.the ISO/OSI model is a … model for internetworking *

○ Expensive

○ Conceptual

○ Real

○ Cheap

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

14.UDP is characterized to be a ... protocol *

○ Reliable

○ Best-effort delivery

○ Connection-oriented

○ The most commonly used over Internet

15.Which of the following layers must be adapted to the transmission media type *

○ Physical Layer

○ Network Layer

○ Transport Layer

○ Data-Link Layer

16.In OSI model, which of the following layer provides errors free delivery of data? *

○ data link

○ session

○ transport

○ network

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

○ FTP

○ Telnet

○ SSH

○ DNS

18. A _____ is a device that forwards packets between networks by processing the routing information included in the packet. *

○ firewall

○ bridge

○ router

○ Hub

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

○ 0 to 255

○ 0 to 1023

○ 1024 to 2047

○ 256 to 1022

20.What Port Does Telnet Use *

○ 22

○ 80

○ 23

○ 110

21.Which phase of hacking performs actual attack on a network or system? *

○ Reconnaissance

○ Maintaining Access

○ Scanning

○ Gaining Access

22-The protocol used to send emails from host to mail server is …….. *

○ smtp

○ pop3

○ imap

○ ppp

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

○ True

○ False

24- The length of the IPv4 address is … bits *

○ 8

○ 4

○ 32

○ 64

25- SSH protocol uses port 21 *
                                                   22

○ True

● False

UPD
26-TCP is used for situations where some data loss is acceptable, like live   *
video/audio, or where speed is a critical factor like online gaming

○ True

● False

27- ……………… is used to map IP address into MAC address *

● ARP

○ RARP

○ IGMP

○ ICMP

28-Layer 2 Switches are depending on mac address to transfers messages   *

● True

○ False

29-When using POP3 protocol, internet connection is needed all the time *

○ True

                    you can work offline
● False

30- NETSTAT command can be used to .... *

○ Test the network connectivity between machines

◉ Display the machine connections in IP/port

○ Correct the packet errors in header and data

○ Delete the default addresses of packets

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31. The default mask for Class B network is *

○ 255.255.255.255

○ 255.255.255.0   class C

◉ 255.255.0.0

○ 255.0.0.0   class A

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32. You are an administrator and responsible of publicly accessible web server *
on the internet . Can you assign the IP address 10.213.214.215 to the server?

                     this ip belongs to private ip

○ True

◉ False

33.We MUST use a domain name server (DNS) to connect to a webserver on the *
internet

○ True

◉ False

34.If the default gateway is configured incorrectly on the host, what is the impact *
in communications?   default gateway mission is to connect local network to the internet

○ 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

35. The unit of communication at the physical layer is ………………and in the data *
link layer is …………………….

◉ Bits, frames

○ Frames, bits

○ Segment, frames

○ Bits, Packets

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