NETWORK QUESTIONS

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1 .How long is an IPv6 address?

A.   32 bits

B.   128 bytes

C.   64 bits

D.   128 bits

Answer: Option D

2 .What are the two main types of access control lists (ACLs)?

   1 Standard

    2 IEEE

    3 Extended

     4 Specialized

A.   1 and 3

B.   2 and 4

C.   3 and 4

D.   1 and 2

Answer: Option A

3. OSI stands for

a) open system interconnection

b) operating system interface

c) optical service implementation

d) none of the mentioned

4 .You have 10 users plugged into a hub running 10Mbps half-duplex. There is a server connected to the switch running 10Mbps half-duplex as well. How much bandwidth does each host have to the server?

A.   100 kbps

B.   1 Mbps

C.   2 Mbps

D.   10 Mbps

Answer: Option D

5. The number of layers in Internet protocol stack

a) 5

b) 7

c) 6

d) None of the mentioned

Answer: a

6. This layer is an addition to OSI model when compared with TCP IP model

a) Application layer

b) Presentation layer

c) Session layer

d) Both Session and Presentation layer

Answer: d

7. In the slow-start algorithm, the size of the congestion window increases _____ until it reaches a threshold.

a) Exponentially

b) Additively

c) Multiplicatively

d) None of the mentioned

Answer: a

8. Transport layer is implemented in

a) End system

b) NIC

c) Ethernet

d) None of the mentioned

Answer: a

9. The functionalities of presentation layer includes

a) Data compression

b) Data encryption

c) Data description

d) All of the mentioned

Answer: d

10. Delimiting and synchronization of data exchange is provided by

a) Application layer

b) Session layer

c) Transport layer

d) Link layer

Answer: b

11. **A _____ is an extension of an enterprise's private intranet across a public network such as the internet, creating a secure private connection.**

a) VNP

b) VPN

c) VSN

d) VSPN

12. Two broad categories of congestion control are

a) Open-loop and Closed-loop

b) Open-control and Closed-control

c) Active control and Passive control

d) None of the mentioned

13. Which of the following is true with respect to TCP

a) Connection-oriented

b) Process-to-process

c) Transport layer protocol

d) All of the mentioned

14. Multiple object can be sent over a TCP connection between client and server in

a) persistent HTTP

b) nonpersistent HTTP

c) both persistent HTTP and nonpersistent HTTP

d) none of the mentioned

15 HTTP is _____ protocol.

a) application layer

b) transport layer

c) network layer

d) none of the mentioned

Answer: a

16. In the network HTTP resources are located by

a) uniform resource identifier

b) unique resource locator

c) unique resource identifier

d) none of the mentioned

Answer: a

17 . In the OSI model, as a data packet moves from the lower to the upper layers, headers are _____

a) Added

b) Removed

c) Rearranged

d) None of the mentioned

Answer: b

18 . FTP server listens for connection on port number

a) 20

b) 21

c) 22

d) 23

Answer: b

19.

Your router has the following IP address on Ethernet0: 172.16.2.1/23. Which of the following can be valid host IDs on the LAN interface attached to the router?

1. 172.16.1.100

2 . 172.16.1.198

 3 . 172.16.2.255

4. 172.16.3.0

A.   1 only

B.   2 and 3 only

C.   3 and 4 only

D.   None of the above

Answer: Option C

20.What is the maximum number of IP addresses that can be assigned to hosts on a local subnet that uses the 255.255.255.224 subnet mask?

A.   14

B.   15

C.   16

D.   30

Answer: Option D

21 .**Which of the following services use TCP?**

DHCP

SMTP

HTTP

TFTP

FTP

A.   1 and 2

B.   2, 3 and 5

C.   1, 2 and 4

D.   1, 3 and 4

Answer: Option B

22.

What layer in the TCP/IP stack is equivalent to the Transport layer of the OSI model?

A.   Application

B.   Host-to-Host

C.   Internet

D.   Network Access

Answer: Option B

23 .Which of the following is private IP address?

A.   12.0.0.1

B.   168.172.19.39

C.   172.15.14.36

D.   192.168.24.43

Answer: Option D

24. Which of the following is false with respect to UDP

a) Connection-oriented

b) Unreliable

c) Transport layer protocol

d) All of the mentioned

Answer: a

25. Transport layer is implemented in

a) End system

b) NIC

c) Ethernet

d) None of the mentioned

Answer: a

26. Which multiplexing technique transmits digital signals ?

a) FDM

b) TDM

c) WDM

d) None of the mentioned

Answer: b

26. If link transmits 4000frames per second, and each slot has 8 bits,the transmission rate of circuit this TDM is

a) 32kbps

b) 500bps

c) 500kbps

d) None of the mentioned

Answer: a

27 .In the slow start phase of the TCP congestion control algorithm, the size of the congestion window

(A) does not increase

(B) increases linearly

(C) increases quadratically

(D) increases exponentially

Answer: (D)

28 Communication offered by TCP is

a) Full-duplex

b) Half-duplex

c) Semi-duplex

d) Byte by byte

Answer: a

29 Which layer 4 protocol is used for a Telnet connection?

A.   IP

B.   TCP

C.   TCP/IP

D.   UDP

Answer: Option B

30 Which statement(s) about IPv6 addresses are true?

Leading zeros are required.

Two colons (::) are used to represent successive hexadecimal fields of zeros.

Two colons (::) are used to separate fields.

A single interface will have multiple IPv6 addresses of different types.

A.   1 and 3

B.   2 and 4

C.   1, 3 and 4

D.   All of the above

Answer: Option B