**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

**Answer: a**

**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**

End system

NIC

Ethernet

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.**

VNP

VPN

VSN

VSPN

**Answer: b**

**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

**Answer: a**

**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

**Answer: d**

**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

**Answer: a**

**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**