

3. In this network, the users share the network segment with other neighboring users which makes it more susceptible to security threats. Moreover, it is not a good option for many businesses. What is the type of this network? \*  
(-/1 Points)

- Integrated Services Digital Networks
- Public Switched Telephone Networks
- TV-cable Networks
- LANs
- WANs



4. Which of the following Ethernet media standards currently in use where it uses 1550 nm optics (only one lane) to make it compatible with existing test equipment and infrastructure and is considered a port type for single-mode fiber that can reach up to 10km? \*  
(-/2 Points)

- 40GBASE-FR
- 40GBASE-T
- 100GBASE-ER4
- 100GBASE-SR10
- 100GBASE-FR

5. Two neighboring nodes (A and B) use a sliding-window protocol with a 3-bit sequence number. As the ARQ mechanism, Go-back-N is used with a window size of 6. assuming that A is transmitting and B is receiving. Show the window positions after A sends frames 0,1,2,3, 4 and receives acknowledgment from B for 0, 1 and 2. \*

5 6 7 0

0 1 2 3 4 5

5 6 7

5 6

6 7 0

6. Digital subscriber line is a class of any of the following networks: \*

Integrated Services Digital Networks

Public Switched Telephone Networks

TV-cable Networks

LANs

None of networks mentioned



7. Which of the following multi-mode optical fiber pairs characterized of being laser-optimized and providing higher speeds and longer link lengths? \*  
(-/2 Points)

- (OM1, OM3)
- (OM2, OM3)
- (OM3, OM4)
- (OM1, OM4)
- (OM1, OM3)



8. The following are the advantages of analog over digital transmission: \*  
(-/2 Points)

- Higher bandwidth
- Easy to apply encryption
- Easier to multiplex large channel capacities
- Lower error rate
- None of the mentioned

9. A channel has a bit rate of 8 Kbps and a propagation delay of 20 msec. For what range of frame sizes does stop-and-wait give an efficiency of at least 75 percent? \*

(-/2 Points)

- 480 bits
- 160 bits
- 320 bits
- 140 bits
- None of the values mentioned



10. One of the following data link protocols facilitates the communication with the internet service providers. It is distinguished over others as of being able to auto-configure its connection settings during initialization and afford error detection and recovery. \*

(-/1 Points)

- SLIP
- PPP
- HDLC
- Ethernet
- ATM

11. It is a protocol used to assign an IP address to a certain MAC address. What is that protocol and at which layer is working? \*  
(-/1 Points)

- DHCP, application layer
- DHCP, data link layer
- ARP, data link layer
- ARP, network layer
- BOOTP, data link layer



12. Consider a LAN with a maximum distance of 8km. At what bit rate would the propagation delay (at a propagation speed of  $2.3 \times 10^8$  m/s) be equal to the transmission delay for 1024-byte packets? \*  
(-/2 Points)

- 235.52 Mbps
- 29.44 Mbps
- 2355.2 Mbps
- 294.4 Mbps
- Insufficient information

13. Given the output after byte-stuffing: FLAG A ESC FLAG B ESC ESC C ESC ESC ESC FLAG ESC FLAG D FLAG. What is the original data? \*  
(-/2 Points)

- A FLAG B ESC C ESC FLAG FLAG D
- FLAG A FLAG B ESC C ESC FLAG FLAG D FLAG
- FLAG A ESC FLAG B ESC ESC C ESC ESC ESC FLAG ESC FLAG D FLAG
- A ESC FLAG B ESC ESC C ESC ESC ESC FLAG ESC FLAG D
- A B C D



14. The bit stuffing is considered a very efficient frame synchronization method as the overhead required is sufficiently fine compared to other relevant methods. On the other hand, physical layer coding violations is well-known frame synchronization method that utilizes the redundancy in physical layer encoding. Which known protocols use these methods, in sequence? \*  
(-/2 Points)

- HDLC and Ethernet (IEEE 802.11)
- Ethernet (IEEE 802.11) and HDLC
- HDLC and DHCP
- ARP and ICMP
- DNS and IP

15. If we want to send data at a rate of 6000 bps through a channel with bandwidth of 1000 Hz. What is the minimum SNR (signal to noise ratio) required? \*  
(-/2 Points)

- 64
- 999999
- 63
- 1000000
- 65



16. The flow and error control of the Ethernet performed in any layer of the following: \*  
(-/1 Points)

- Application layer
- Network layer
- MAC sub layer
- PHY layer
- LLC sub layer

17. It is the former protocol of the Ethernet. It was used in OSI model. What is it? \*

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MAC sub layer

PHY layer

LLC sub layer

17. It is the former protocol of the Ethernet. It was used in OSI model. What is it? \*  
(-1 Points)

HDLC

Frame relay

X.25

SLIP

ARP

POWERUNIT

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