

Started on Thursday, 23 November 2023, 4:30 PM

State Finished

Completed on Thursday, 23 November 2023, 4:43 PM

Time taken 13 mins 17 secs

Question **1**

Complete

Marked out of 1.00

Which is not true for Packet switching?

- ☒ a. A dedicated path is followed throughout the session.
- ☐ b. The delivery of these packets becomes easy when complicated protocols are used.
- ☐ c. Multiple users can use the same channel while transferring their packets.
- ☐ d. Installation costs of packet switching are expensive.

Question **2**

Complete

Marked out of 1.00

Transmission delay not depends upon

- ☒ a. Distance between routers
- ☐ b. Packet length
- ☐ c. Transmission rate
- ☐ d. Bandwidth of the medium

Question **3**

Complete

Marked out of 1.00

What is the class of this IPV4 address **11101111 11110111 11000111 00011101**?

- ☒ a. class D
- ☐ b. class B
- ☐ c. class C
- ☐ d. class A

Question **4**

Complete

Marked out of 1.00

What kind of transmission medium is most appropriate to carry data in a computer network that is exposed to electrical interference?

- ☐ a. Un-shielded twisted pair
- ☒ b. Optical fiber
- ☐ c. Coaxial cable
- ☐ d. Microwave link

Question **5**

Complete

Marked out of 1.00

The size of an IP address in IPV6 is.....

- ☐ a. 40bytes
- ☒ b. 128 bits
- ☐ c. 60 bits
- ☐ d. 128 bytes

Question **6**

Complete

Marked out of 1.00

Which is of the following statement is incorrect,

A shared broadcast media of transmission bandwidth 20 Mbps is shared by 100 users then,

- ☐ a. Using FDMA scheme, each of the users have an access to 200 Kbps of bandwidth
- ☒ b. Using CDMA scheme, each of the users have an access to 200 Kbps of bandwidth
- ☐ c. Using CDMA scheme, each of the users have an access to 20 Mbps of bandwidth
- ☐ d. Using TDMA scheme, each of the users have an access to 200 Kbps of bandwidth

Question **7**

Complete

Marked out of 1.00

Which sub-layer of the data link layer performs data link functions that depend upon the type of medium?

- ☐ a. Logical link control sub-layer
- ☐ b. network interface control sub-layer
- ☐ c. error control sub-layer
- ☒ d. Media access control sub-layer

Question **8**

Complete

Marked out of 1.00

The number of bits in IPV4 address, IPV6 address, MAC address and Port address are

- ☐ a. 32, 128, 64, 16
- ☐ b. 32, 128, 48, 32
- ☐ c. 128, 32, 48, 16
- ☒ d. 32, 128, 48, 16

Question **9**

Complete

Marked out of 1.00

The maximum size of payload field in Ethernet frame is

- ☐ a. 1200 bytes
- ☐ b. 1000 bytes
- ☒ c. 1500 bytes
- ☐ d. 1300 bytes

Question **10**

Complete

Marked out of 1.00

In class C classful IPv4 addressing format, the number of networks allowed under Class C addresses is

- ☒ a. 2^{21}
- ☐ b. 2^{24}
- ☐ c. 2^{14}
- ☐ d. 2^7
 2^7

Question **11**

Complete

Marked out of 1.00

The sharing of medium and its links by two or more devices is called

- ☐ a. Duplexing
- ☒ b. Multiplexing
- ☐ c. Microplexing
- ☐ d. Fully duplexing

Question **12**

Complete

Marked out of 1.00

What is access points (AP) in a wireless LAN?

- ☒ a. device that allows wireless devices to connect to a wired network
- ☐ b. all nodes in the network
- ☐ c. both device that allows wireless devices to connect to a wired network and wireless device itself
- ☐ d. wireless device itself

Question **13**

Complete

Marked out of 1.00

The function of Digital Subscriber Line Access Multiplexer is to _____

- ☐ a. Amplify digital signals
- ☐ b. De-amplify digital signals
- ☐ c. Convert digital signals into analog signals
- ☒ d. Convert analog signals into digital signals

Question **14**

Complete

Marked out of 1.00

Which physical media provides the highest transmission speed in a network?

- ☒ a. optical fiber
- ☐ b. co-axial cable
- ☐ c. twisted pair cable
- ☐ d. electrical cable

Question **15**

Complete

Marked out of 1.00

Propagation delay depends on

- ☐ a. Transmission rate
- ☐ b. Packet length
- ☒ c. Distance between routers
- ☐ d. Speed of CPU

Question **16**

Complete

Marked out of 1.00

Which of the following is not a valid IP address?

- ☐ a. 145.6.14.8
- ☒ b. 192.25.256.8
- ☐ c. 145.6.14.1
- ☐ d. 192.168.2.1

Question **17**

Complete

Marked out of 1.00

Communication between a computer and a speaker involves

- ☐ a. Automatic
- ☒ b. Simplex
- ☐ c. Full-duplex
- ☐ d. Half-duplex

Question **18**

Complete

Marked out of 1.00

Find out the invalid subnet mask from the following

- ☐ a. 255.255.255.252
- ☐ b. None of these
- ☒ c. 255.255.242.0
- ☐ d. 255.240.0.0

Question **19**

Complete

Marked out of 1.00

Which of the following is link layer protocol

- ☒ a. All of these
- ☐ b. HDLC (High Level Data Link control)
- ☐ c. Ethernet
- ☐ d. PPP (point-to-point protocol)

Question **20**

Complete

Marked out of 1.00

Which of the following task is not done by data link layer?

- ☐ a. Error control
- ☐ b. Framing
- ☒ c. Encoding
- ☐ d. Flow control

Question **21**

Complete

Marked out of 1.00

Ethernet frame consists of

- ☐ a. None of these
- ☐ b. IP address
- ☒ c. MAC address
- ☐ d. Default mask

Question **22**

Complete

Marked out of 1.00

What is default subnet mask address of this IPV4 address **172.15.165.1**?

- ☐ a. 255.255.0.0
- ☐ b. 255.255.255.255
- ☒ c. 255.255.255.0
- ☐ d. 255.0.0.0

Question **23**

Complete

Marked out of 1.00

What is the Hexadecimal equivalent of the following Ethernet address

010110100001000101010101000110001010101000001111

- ☐ a. 5A115514AA0F
- ☐ b. None of these
- ☒ c. 5A115518AA0F
- ☐ d. 5A1155189A0E

Question **24**

Complete

Marked out of 1.00

Which one is a valid subnet mask out of the following?

- ☒ a. 240.0.0.0
- ☐ b. 223.0.0.0
- ☐ c. None of these
- ☐ d. 255.230.255.0

Question **25**

Complete

Marked out of 1.00

In link layer, parity bits are used for

- ☐ a. to transmit data faster
- ☒ b. to detect errors
- ☐ c. encryption of data
- ☐ d. to identify the user

Question **26**

Complete

Marked out of 1.00

Which address identifies a process on a host?

- ☒ a. port address
- ☐ b. physical address
- ☐ c. logical address
- ☐ d. specific address

Question **27**

Complete

Marked out of 1.00

Which of the following is a set of rules that governs the data communication in a computer network

- ☐ a. Activity standards
- ☒ b. Protocols
- ☐ c. RFCs
- ☐ d. None of these

Question **28**

Complete

Marked out of 1.00

Which is true for circuit switching?

- ☐ a. The bandwidth used is not constant.
- ☐ b. All of these
- ☒ c. The rate at which the data is transmitted is constant.
- ☐ d. While switching, time is wasted in waiting.

Question **29**

Complete

Marked out of 1.00

Define the type of this Ethernet frame destination address **FF:FF:FF:FF:FF:FF**

- ☐ a. Unicast
- ☒ b. Broadcast
- ☐ c. Multicast
- ☐ d. None of these

Question **30**

Complete

Marked out of 1.00

Which of the following is true for Address Resolution Protocol (ARP)?

- ☐ a. ARP request is unicast and ARP reply is also unicast.
- ☒ b. ARP request is broadcast and ARP reply is unicast.
- ☐ c. ARP request is unicast and ARP reply is broadcast.
- ☐ d. ARP request is broadcast and ARP reply is also broadcast.

Question **31**

Complete

Marked out of 1.00

Transmission rate is decided by

- ☒ a. network layer
- ☐ b. transport layer
- ☐ c. data link layer
- ☐ d. physical layer

Question **32**

Complete

Marked out of 1.00

In computer networks nodes are....

- ☒ a. All of these
- ☐ b. the computer that terminates the data
- ☐ c. the computer that routes the data
- ☐ d. the computer that originates/generates the data

Question **33**

Complete

Marked out of 1.00

Optical Network Terminator is connected to splitter using _____

- ☐ a. Twisted pair cable
- ☒ b. Optical cable
- ☐ c. microwave link
- ☐ d. hybrid fiber co-axial cable

Question **34**

Complete

Marked out of 1.00

What is default subnet mask address of this IPV4 address **11001111 11110111 11000111 00011101**?

- ☒ a. 255.255.255.0
- ☐ b. 255.255.0.0
- ☐ c. 255.255.255.255
- ☐ d. 255.0.0.0

Question **35**

Complete

Marked out of 1.00

Header of a frame generally contains

- ☐ a. Frame identifier
- ☒ b. All of these
- ☐ c. MAC addresses
- ☐ d. Synchronization bytes

Question **36**

Complete

Marked out of 1.00

A landline telephone network is an example of..... network.

- ☐ a. Both packet switched and circuit switched
- ☒ b. Circuit switched
- ☐ c. Line switched
- ☐ d. Packet switched

Question **37**

Complete

Marked out of 1.00

Which of the following delay is faced by the packet in travelling from one end system to another?

- ☐ a. Queuing delay
- ☐ b. Transmission delay
- ☐ c. Propagation delay
- ☒ d. All of these

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