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No error detection scheme is perfect because transmission errors can affect the additional information as well as the data.

► True (Computer Networks and Internets, page82)

► False

Program sends a message to a remote computer and reports whether the computer responds.

► Ping (Computer Networks and Internets, page9)

► Traceroute

► ICMP

► Non of the given

----- was especially concerned about the lack of high powered computers.

► ARPA (Computer Networks and Internets, page5)

► IEEE

► EIA

► None of the given

The term -------- is used to denote the definition of a packet used with a specific type of network.

► Packet

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► Frame (Computer Networks and Internets, page 73)

► Data

► None of the given

Computer networks are often called ---------- because they use packet technology.

► Ethernet

► Switch networks

► Packet networks (Computer Networks and Internets, page 73)

► None of the given

---------- have advantages arisen from the size and ease of computation.

► CRC

► Parity (Page 19)

► Checksums

► None of given

Most LANs that employ ring topology use an access mechanism known as-------

► CSMA/CD

► CSMA/CA

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► TOKEN PASSING (Computer Networks and Internets, page95)

► None of the given

IEEE LLC/SNAP header is --------, which is used to specify the type of data.

► 8 octets (Computer Networks and Internets, page112)

► 8 bytes

► 8 bits

► None of the given

Formally named _____ informally known as the twisted pair Ethernet or TP Ethernet.

► 10 Base 2

► 10 Base 5

► 10 Base T (Page 43)

► None of the given

An interface for twisted pair Ethernet must have an _____ connector, and must generate signals according to the_____ specification.

► RJ-45, 10 Base T (Computer Networks and Internets, page 126)

► RJ-45, 10 Base 5

► BNC, 10 Base 2

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► BNC, 10 Base T

A bridges function in the _____ layers(s).

► Physical (MAC) Click here for Detail

► Data link

► Network

► Physical (MAC) and Data link

A Bridge can _____

► Filter a frame

► Forward a frame

► Extend a LAN

► Do all the above Click here for Detail

A Bridge forwards or filters a frame by comparing the information in its address table to the frame's_____

► Layer 2 source address

► Source node's physical address

► Layer 2 destination address Click here for Detail

► Layer 3 destination address

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_____ computes shortest paths in a graph by using weights on edges as a measure of distance.

► Greedy algorithm

► Distance vector algorithm

► Dijksta's algorithm (Computer Networks and Internets, page112)

► None of the given

_____ is used for audio and video, since these have predefined maximum data rates

► Constant Bit Rate (CBR) service (Page 71)

► Variable Bit Rate (VBR) service

► Available Bit Rate (ABR) service

► None of the given

Unlike Frame Relay and ATM, SMDS (Switched multi-megabit Data service) offers_____ .

► Connectionless service paradigm (Computer Networks and Internets, page112)

► Connection oriented service paradigm

► Both Connectionless and Connection-oriented service paradigm

► None of the given

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Questions:

1. Where are destination and source address located in frame? (2 marks)

Answer:- (Page 56) The packet header includes destination and source addresses.

2. If 100mbps Ethernet NIC is connected to a hub which supports 10mbps, what will be the data rate in this scenario? (2 marks)

Answer:- This has two consequences. First, the hub does not necessarily create a broadcast medium. Second, there are no collisions between traffic on 10 Mbps ports and 100 Mbps ports.

3. In connection oriented network, which type of connection identifier is used? Support your answer with example. (2 marks)

Answer:- (Page 66) ATM uses the concept of connection-oriented networking.

4. Imagine a network of 6 devices A, B, C, D, E and F. All devices are on same packet switch. If computer A wants to send packet to computer E, How would packet switch forward this packet? (3 marks)

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Answer:- path between switch A and F and the total distance traveled along this path switch A – switch D – switch E distance = 4

5. Network administrator needs audio and video service for his network. He has to send or receive data at same data rate. Which type of ATM quality service specification would be applied there? Give example? (3 marks)

Answer:- To facilitate the transport of audio and video data across emerging Asynchronous Transfer Mode (ATM) networks, a simple, low cost, audio/video ATM appliance, the AVATAR, has been developed. This appliance is capable of handling uncompressed bidirectional audio and NTSC video connections.

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