Interconexión de Redes

Tema 1 y Tema 2

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1. **Wide-area digital transmission scheme used predominantly in Europe that carriesdata at a rate of 2.048 Mbps.** *

   E1

2. **Digital WAN carrier facility. T1 transmits DS-1-formatted data at 1.544 Mbpsthrough the telephone-switching network** *

   CSU/DSUs

3. **Which of the following best describes Frame Relay?** *

   Mark only one oval.

   ( ) It uses high-quality digital facilities and is the fastest WAN protocol

   (X) It supports point-to-point and multipoint configuratiions, and it uses frame characters and checksums

   ( ) It is a digital service that transmists voice and data over existing telephonelines

   ( ) It provides router-to-router and host-to neteork connectios over synchronous and asynchroonous circuits

4. **The data capacity of a link** *

   Bandwidth

5. **Which of the following best describes a WAN?** *

   Mark only one oval.

   (X) It connects LANs that are separated by a large geographic area.

   ( ) It connects workstations, terminals, and other devices that are in a metropolitan area.

   ( ) It connects LANs that are within a large building.

   ( ) It connects workstatios, terminals, and other devices that are within a building.

6. **Which of the following are WAN technologies?** *

Mark only one oval.

( ) Token Ring and ARCnet

(X) Frame Relay and SMDS

( ) Star and Banyan VINES

( ) CSU/DSU and ARCview

7. **What service does a WAN provide to LANs?** *

Mark only one oval.

( ) High-speed multiple access to data networks

( ) IP addressing and secure data transfer

(X) Exchange of data packets between routers and the LANs those routers support

( ) Direct routing with error checking

8. **What type of connections do WANs use that LANs typically do not use?** *

Mark only one oval.

( ) Parallel, lower speed

( ) Multiple, higher speed

( ) Multiple, lower speed

(x) Serial, lower speed

9. **At which layers of the OSI model does a WAN operate?** *

Mark only one oval.

( ) Physical and application

(X) Physical and data link

( ) Data link and network

( ) Data link and presentation

10. **What do the WAN physical layer standards describe?** *

Mark only one oval.

( ) Interface between SDLC and HDLC

( ) How Grames are sent and verified

( ) How voice and data traffic are routed

(x) Interface between DTE and DCE

11. **Which of the following best describes what WAN data link protocols define?** *

Mark only one oval.

(x) How frames are carried between systems on a single data link

( ) Methods for determining optimum path to a destination

( ) How data packets are transmitted berween systems on a multiple data links

( ) Methods for mapping IP addresses to MAC addresses

12. **Which of the following is a WAN data link protocol?** *

Mark only one oval.

( ) TCP/IP

(X) Point-to-Point Protocol

( ) EIGRP

( ) OSPF

13. **Which of the following are not used in a WAN?** *

Mark only one oval.

(X) Hub

( ) Modem

( ) Router

( ) Communications server

14. **How does the network layer send packets from the source to the destination?** *

Mark only one oval.

(X) It uses an IP routing table

( ) It uses ARP responses

( ) It refers to a name server

( ) It refers to the bridge

15. **Which term below means all routers have the same or consistent routing knowledge of the network?** *

Mark only one oval.

(X) Converged

( ) Balanced

( ) Congruent

( ) Concave

16. **What destination address can be used to send a packet from a host with IP address 188.1.1.1 to all hosts on the network.** *

Mark only one oval.

( ) 188.0.0.0

( ) 0.0.0.0

( ) 255.255.255.255

( ) b y c

17. **A packet send form a node with IP address 198.123.46.20 to all nodes on network 198.123.46.0 requires a_____address.** *

Mark only one oval.

- ( ) unicast
- ( ) multicast
- (X) broadcast
- ( ) a o b

18. **Which of the following is an example of a routed protocol?** *

Mark only one oval.

- ( ) RIP
- (X) IP
- ( ) EIGRP
- ( ) OSPF

19. **What is the control information called that is placed in front of data in a datapacket?** *

Mark only one oval.

- ( ) Addressing
- (X) Header
- ( ) Trailer
- ( ) Encapsulate

20. **Which two of the following addresses are valid subnet addresses when 172.17.15.0/24 is subnetted an additional 4 bits? (Choose two.)** *

Check all that apply.

- [ ] 172.17.15.0
- [ ] 172.17.15.8
- [ ] 172.17.15.40
- [ ] 172.17.15.96
- [ ] 172.17.15.248

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