1   Which of the following is the SMALLEST?
    a   2B
    b   8b
    c   4Mb
    d   1KB

2   Which of the following is the LARGEST?
    a   2B
    b   8b
    c   4Mb
    d   1KB

3   Which of the following port numbers is used by SNMP?
    a   23
    b   80
    c   25
    e   161
    d   None of the above

4   Which of the following port numbers is used by SMTP?
    a   21
    b   20
    c   25
    d   119
    e   None of the above

5   A URL for an Internet site begins with 'https:'. This is an indication that this web site uses:
    a   Kerberos
    b   PGP
    c   PKI
    d   SSL
    e   None of the above

6   If the users on your network find that they have to type Internet Protocol (IP) addresses into their
    browsers to connect to Web pages successfully, the problem is most likely with which of the
    following services?

    a   DNS
    b   NAT
    c   DHCP
    d   WINS
    e   None of the above

7   Which protocol(s) is used to browse web pages?
    a   SNMP
    b   HTTP
    c   HTTPS
    d   POP3

e   IMAP

f   NNTP

8   Which RAID configuration corresponds to the so called "Mirror" ?

a   RAID 0

b   RAID 1

c   RAID 4

d   RAID 5

e   None of the above

9   To transfer mails between email servers of different domains you would require POP3 service. True/False? If False specify the correct service which is required.

a   True

b   False (……………………………………………………………………………)

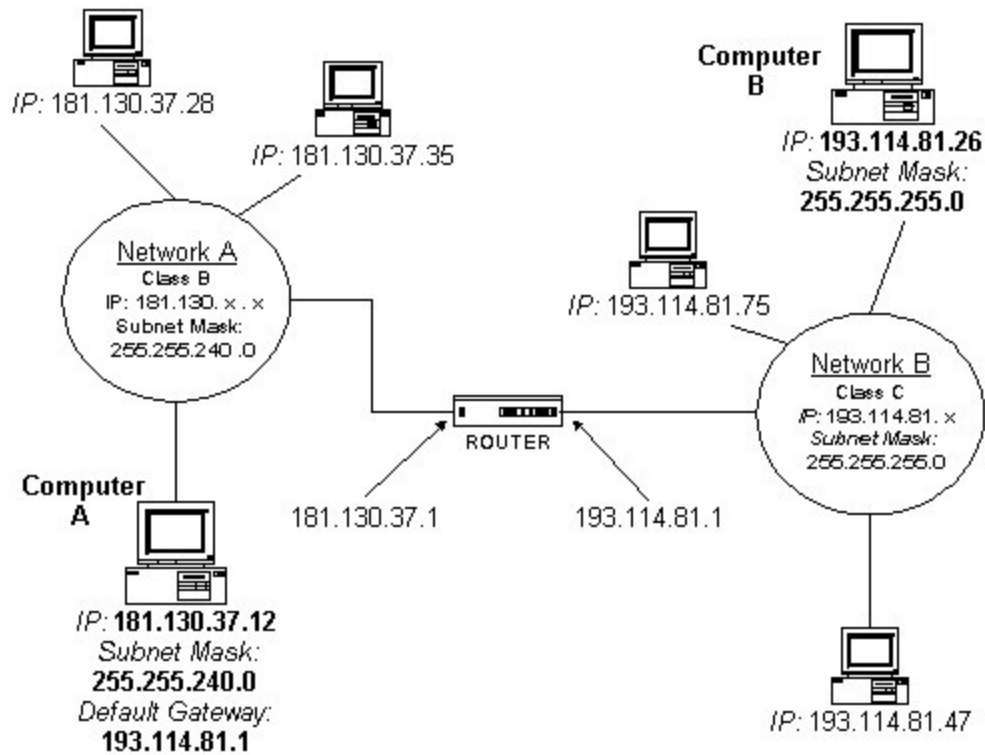10 A network administrator attempts to ping Host2 from Host1 and receives the results that are shown.
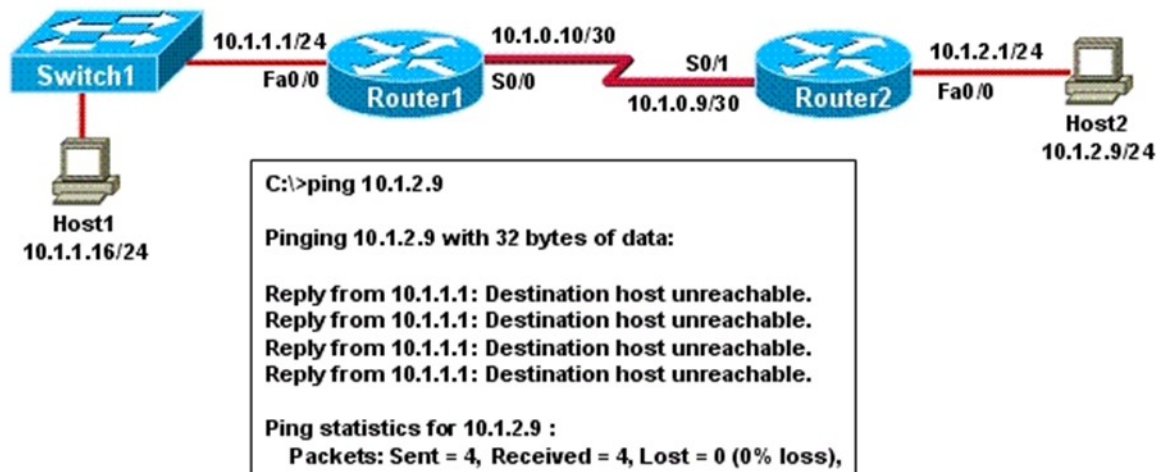
What is the possible problem?

a   The link between Host1 and Swtch1 is down

b   The link between Router1 and Router2 is down

c   The default gateway on Host1 is incorrect

d   Interface Fa0/0 on Router1 is shutdown

e   The link between Swtch1 and Router1 is down.

f   None of the above

11 You manage the network shown in the exhibit.

Computer A can connect with computers on Network A, but cannot connect with computers on Network B.

Which solution is most likely to allow communication between Network A and Network B?

Computer
B
IP: **193.114.81.26**
Subnet Mask:
255.255.255.0

IP: 181.130.37.28

IP: 181.130.37.35

IP: 193.114.81.75

Network A
Class B
IP: 181.130. x . x
Subnet Mask:
255.255.240 .0

Network B
Class C
IP: 193.114.81. x
Subnet Mask:
255.255.255.0

ROUTER

Computer
A

181.130.37.1   193.114.81.1

IP: **181.130.37.12**
Subnet Mask:
255.255.240.0
Default Gateway:
193.114.81.1

IP: 193.114.81.47

a   Change the default gateway on Computer A to 181.130.37.0.
b   Change the default gateway on Computer A to 181.130.37.1.
c   Change the subnet mask on Computer A to 255.255.255.0.
d   Change the Internet Protocol (IP) address on Computer A to 193.114.81.56
e   None of the above

12 Which of the following describe private IP addresses?
   a   Addresses that can be routed through the public internet
   b   Addresses chosen by a company to communicate with internet
   c   Addresses that cannot be routed through the public internet
   d   None of the above

13 Which of the following is a valid host IP address?
   a   10.10.10.10
   b   00-03-A6-98-03-16
   c   A87E34B2
   d   192.168.0.256
   e   None of the above

14 Which of the following are IP network classes?
   a   A
   b   B
   c   C

d   D
e   E
f   F
g   G
h   H
i   None of the above

15 How many bits contains network mask 255.255.254.0
    a   23
    b   24
    c   25
    d   26
    e   None of the above

16 How many bits contains an IPv4 address ?
    a   16
    b   32
    c   64
    d   128
    e   None of the above

17 How many bits contains an IPv6 address ?
    a)   16
    b)   32
    c)   64
    d)   128

18 What is the correct command to check connectivity in the LAN?
    a   Nslookup
    b   Host
    c   Ping
    d   Link
    e   Netstat
19 Which of the following are characteristics of Telnet?
    a   It sends data in clear text format
    b   It is more secure than SSH
    c   It requires an enterprise license in order to be implemented
    d   It is less secure than SSH

20 To which layer do the following communicating devices belong? Switch, Ethernet Card.
    a   Physical layer
    b   Datalink layer
    c   Network Layer
    d   None of the above

21 What would you use a DNS server for?
    a   To find the IP address of a host name
    b   To find the host name of an IP address
    c   To find the default web proxy in the LAN
    d   To find the network gateway in the LAN

    e   To find your own IP address
    f   To find your network mask

22 What would you use a DHCP server for?
    a   To find the IP address of a host name
    b   To find the host name of an IP address
    c   To find the default web proxy in the LAN
    d   To find the network gateway in the LAN
    e   To find your own IP address
    f   To find your network mask

23 What functions do routers perform in a network?
    a   Access layer security
    b   Path selection
    c   VLAN membership assignment
    d   Bridging between LAN segments
    e   Packet switching
    f   None of the above

24 What type of cable is used to interconnect two computers:

    a   Crossover
    b   Straight
    c   Console
    d   None of the above

25 What type of cable is used to interconnect router and switch:

    a   Crossover
    b   Straight
    c   Console
    d   None of the above

26 What type of cable is used to interconnect two routers?
    a   Crossover
    b   Straight
    c   Console
    d   None of the above

27 A company is installing IP phones. The phones and office computers connect to the same device. To ensure maximum throughput for the phone data, the company needs to make sure that the phone traffic is on a different network from that of the office computer data traffic. What is the best network device to which to directly connect the phones and computers, and what technology should be implemented on this device?

a   Hub
b   Router
c   Switch
d   STP
e   Subinterfaces
f   VLAN

28 For security reasons, you need to prevent pings into the corporate networks from hosts outside the network. Which protocol should be blocked?
a   IP
b   ICMP
c   TCP
d   UDP

29 When using network monitoring system to monitor workstations, which of the following elements should be reviewed because their information could indicate a possible attack?
a   Hard disk space
b   System log
c   Network counters and access denied errors
d   None of the above

30 Which of the following can be termed as the Denial of Service Attack?
a   A computer on your network has crashed
b   Your router is unable to find a destination outside of your network
c   Your Web server has gone into a loop trying to service a client request
d   Your keyboard is no longer responding
e   None of the above

31 Which type of attack is characterized by a flood of packets that are requesting a TCP connection to a server?
a   Denial of Service
b   Brute Force
c   Reconnaissance
d   Trojan horse
e   None of the above

32 Which of the following is an ideal location for storing the backup?
a   Offsite location
b   Within the main site
c   Close to the device, which data is backuped
d   None of the above

33 What should be part of a comprehensive network security plan?
a   Allow users to develop their own approach to network security
b   Physically secure network equipment from potential access by unauthorized individuals
c   Encourage users to use personal information in their passwords to minimize the likelihood of passwords being forgotten

d   Delay deployment of software patches and updates until their effect on end-user equipment is well known and widely reported

e   Minimize network overhead by deactivating automatic antivirus client updates

34 A compromise of which device could result in a VLAN being compromised?
   a   Router
   b   Switch
   c   NAT server
   d   None of the above

35 What are two recommended ways of protecting network device configuration files from outside network security threads?
   a   Allow unrestricted access to the console
   b   Use a firewall to restrict access from the outside to the network devices
   c   Always use Telnet to access the device command line because its data is automatically encrypted
   d   Use SSH or another encrypted and authenticated transport to access device configuration
   e   Prevent the loss of passwords by disabling password encryption

36 What does "UPS" mean?
   a   Uninterruptable Power Supply
   b   Unlimited Power Source
   c   Unusual Power System
   d   None of these

37 What does "RAM" mean
   a   Read Ahead Memory
   b   Read And write Memory
   c   Random Access Memory
   d   None of the above

38 What does "DMZ" mean?
   a   Digital Media Zone
   b   Demilitarized Zone
   c   Dual Module Zone
   d   None of the above

39 What does "IDS" mean?
   a   Intrusion Detection System
   b   Ideal Digital Service
   c   Indicating Device System
   d   None of the above

40 In Linux Operating systems, most configuration files are stored in which directory:
   a   /var
   b   /bin
   c   /etc
   d   /config
   e   None of the above

41 In Linux Operating systems, what command should be used to list the attributes of the current directory?
    a   ls –l
    b   list –d
    c   pwd
    d   none of the above

42 What is the name of the cable connector used in Ethernet LANs?
    a   RJ11
    b   RJ11-6
    c   RJ45
    d   RJ45-8
    e   None of the above

43 How many wires are there in an Ethernet LAN cable?

    a   4
    b   5
    c   6
    d   7
    e   8

44 How many wires are needed to establish an Ethernet connection running at 100Mbps?

    a   4
    b   5
    c   6
    d   7
    e   8