Q.1) What does it mean if a protocol is stateless?
A: If a stateless protocol is used, it cannot be traced.
B: Server responds to a request, and then forgets about it
C: Client responds to server request and keeps track of the conversation.
D: If a protocol is stateless, it means it is unreliable

Q.2) Identify the FALSE statement
A: Wireless LAN and Ethernet are broadcast medium
B: Wireless LAN & Ethernet cannot co-exist
C: WLAN provides less bandwidth compared to Gigabit Ethernet
D: WLAN & Ethernet can use IP as their network layer protocol

Q.3) Which of the following statement about ICMP is FALSE?.
A: ICMP sends 5 types of error reporting messages and 4 pairs of query messages to support unreliable and connection less IP
B: The source-quench error message is sent in an effort to alleviate congestion
C: The echo-request and echo-reply messages test the connectivity between 2 systems
D: ICMP messages are not encapsulated in IP datagram

Q.4) Which of the following is not part of IP header?
A: Window size
B: Fragment offset
C: Header checksum
D: Time to live

Q.5) Which of these commands displays the IP address and MAC address mappings known to a windows system?
A: Netstat -a
B: Tracert
C: Ipconfig
D: Arp -a

Q.6) Match the following with the corresponding protocols
a) IP to host name resolution   i) ICMP
b) Accessing mail account   ii) ARP
c) Who owns IP address 172.16.1.2? iii) DNS
d) Destination unreachable   iv) IMAP

A: a-iii, b-i, c-ii, d-iv
B: a-ii, b-iv, c-iii, d-i
C: a-iii, b-iv, c-ii, d-i
D: a-ii, b-iii, c-iv, d-I

Q.7) Which of the following statements is a true description of fiber Optic Cable.
A: Fiber optic cables transfer data in a mesh
B: Fiber optic cables are similar to coaxial cables
C: Fiber optic cables transfer data in light form
D: Fiber optic cable are similar to twisted pair cables

Q.8) What is the maximum data field length (MTU) supported by the Ethernet?
A: 1500 Bytes
B: 1518 Bytes
C: 1400 Bytes
D: 1024 Bytes

Q.9) For which of the following is UDP unsuitable? Choose the most appropriate answer.
A: DNS
B: Multicasting
C: RTP
D: SMTP

Q.10) The routing table of the router is shown below:

Destination	Subnet Mask	Interface
192.168.43.0	255.255.255.0	eth0
192.168.43.0	255.255.255.128	eth1
192.12.17.5	255.255.255.255	eth3
Default		eth2

On which interface will the router forward packets addressed to destinations 192.168.43.16 and 192.168.17.10

A: eth1 and eth2
B: eth0 and eth2
C: eth0 and eth3
D: eth1 and eth3

Q.11) Which of the following uniquely identifiers a TCP connection?
A: Sender IP, Receiver IP
B: Sender port, Receiver port
C: Sender IP & Sender Port, Receiver IP & Receiver Port
D: Sender MAC & Sender IP, Receiver MAC & Receiver IP

Q.12) Which of this IEEE standard defines Token Ring?
A: 802.11
B: 802.3
C: 802.7
D: 802.5

Q.13) Which type of Packet (or Address) is not supported in IPV6?
A: Unicast
B: Multicast
C: Broadcast
D: Anycast

Q.14) Match the following

i. UTP	1. RJ11
ii. Serial Interface	2. RJ45
iii.Telephone	3. V.35

A: UTP-RJ11,Serial I/F – RJ45, Telephone – V.35
B: UTP-RJ45,Serial I/F – V.35, Telephone – RJ11
C: UTP-V.35,Serial I/F – RJ45 Telephone – RJ11
D: UTP-RJ45,Serial I/F – RJ11, Telephone – V.35

Q.15) After a host name is resolved to an IP address, what does a local host need to do next to communicate with the target host if the target host resides on the same subnet?
A: Resolve the IP address to physical address using ARP
B: Update routing table
C: Resolve the IP address to physical address using RARP
D: Send the packet to the default Router

Q.16) A hub connects 24 computers. In that A and B are two machines. A sends data to B. How many computers will receive that data?
A: Only B will receive
B: All 24 computers will receive
C: Only A and B will receive
D: All computers except A will receive

Q.17) Which type of NAT maps private IP address to a public IP address on one to one basis?
A: Static NAT
B: Dynamic NAT
C: Port Address Translation
D: None

Q.18) Which of the following TCP flag is set in the first packet that goes from the web client to a web server while opening a web site?

A: SYN
B: RST
C: ACK
D: URG

Q.19) Which of the statements is not true related to a network switch?

A: All the computers connected to a switch are in a same broadcast domain
B: Each port of a switch is a different broadcast domain
C: The switch uses source and destination MAC address fields in Ethernet frames to create MAC table
D: Each port of a switch is a different collision domain

Q.20) Which of this device stops MAC address broadcasts and thus separates two broadcast domains?

A: Switch
B: HUB
C: Repeater
D: Router

Q.21) A computer is given an IP address as 192.168.100.35 with a subnet mask of 255.255.255.224. Which of this IP address is not in the same IP subnet as this computer?

A: 192.168.100.33
B: 192.168.100.55
C: 192.168.100.60
D: 192.168.100.65

Q.22) What will be the broadcast address for the network 10.10.0.0 with subnet mask 255.255.0.0?

A: 10.10.0.255
B: 10.10.255.254
C: 10.10.255.255
D: 10.10.255.0

Q.23) What is the correct representation of following IPV6 address 3ffe:3700:0200:00ff:0000:0000:0000:0001?

A: 3ffe:3700:02:ff::1
B: 3ffe:3700:200:ff::1
C: 3ffe:37:2:00ff::1
D: 3ffe:37:200:ff::1

Q.24) Assume you are working on a PC and you are typing www.somesite.in . but you are not able to connect to it, but when you try 202.141.151.33 you are able to connect. What might be wrong? (assuming IP address of www.somesite.in is 202.141.151.33)

A: The company firewall restricts the access to websites
B: A virus could have caused the problem
C: The DNS server or DNS settings are not properly configured
D: The PC is configured to accept only IP address

Q.25) Which OS command shows the routing table of the machine?
A: arp -all
B: netstat –r
C: showroute –all
D: systems does not have the routing tables only routers have the routing tables

Q.26) Correctly match the "Layer Name" with the "Name of the unit exchanged" at that Layer.

    A) Physical layer   i) Packet
    B) Data link layer   ii) TPDU
    C) Network Layer   iii) Bit
    D) Transport Layer   iv) Frame

A: A- iii, B- i, C-ii, D-iv
B: A- iii, B- iv, C- ii, D- i
C: A-iv, B-iii, C-ii, D-I
D: A - iii, B - iv, C - i, D – ii

Q.27) Which of this is a routed protocol?

A: IP
B: RIP
C: OSPF
D: EIGRP

Q.28) Which of the following is the issue NOT addressed by the IP protocol at Network Layer.

A: Addressing
B: Subnetting
C: Routing
D: Circuit setup

Q.29) Which of the OSI layers defines encryption technologies to protect transmitted data?

A: Application Layer
B: Session Layer
C: Presentation Layer
D: Physical Layer

Q.30) Which all transport layer header flags are involved while establishing a connection?

A: SYN and FIN
B: SYN and ACK
C: SYN , ACK and FIN
D: FIN and ACK

Q.31) FTP at the Application Layer, TCP at the Transport Layer, IP at the Network Layer and 802.3 at the Data Link Layer would be representing a system in ___

A: LAN
B: MAN
C: WAN
D: WLAN

Q.32) Which TCP/IP layer attaches a header and trailer to the transmitting data?

A: Application Layer
B: Data Link Layer
C: Transport Layer
D: Network Layer

Q.33) What is the principle difference between CDMA and GSM?

A: GSM and CDMA use the same technology but difference is in the handset
B: GSM uses TDMA while CDMA uses Spread Spectrum modulation
C: GSM phones can be used with CDMA , but the other way around is not possible
D: CDMA uses TDM While GSM uses FDM

Q.34) Which of the following is FALSE for VLANs?
A: Segmented by port or MAC address
B: Span multiple switches
C: No routing is needed for connectivity between VLANS
D: VLANS operates at layer 2

Q.35) ___in Example of Physical Address and __ is an example of logical address

        A: IP Address, MAC Address
        B: MAC address, Sequence Number
        C: MAC address, IP Address
        D: Sequence Number, IP Address

Q.36) Which of the following statement is not true related to Multi-mode Fiber optic cable?

        A: It suffers a lot from high dispersion and attenuation rates.
        B: It is used for short distance communication.
        C: It uses a large diameter fiber optic core.
        D: It has very low dispersion and attenuation rates.

Q.37) Which of the Wireless standard works only on 5GHz band?
        A: 802.11a
        B: 802.11b
        C: 802.11g
        D: 802.11n

Q.38) How to set the privileged mode password in cisco router?

        A: router> password cdac
        B: router # enable password cdac
        C: router > enable password cdac
        D: router(config)# enable password cdac

Q.39) Administrator have configured an inbound access list on a serial interface to deny the packet entry for tcp and udp port 21,23,25. Now, what type of packet will be passing through the network :

        A: SMTP
        B: TELNET
        C: HTTP
        D: FTP

Q.40) If a PC does not have network connectivity to a router, which router port can be used to establish communication?

        A: Ethernet
        B: Console
        C: VTY
        D: Serial

Module Name: Fundamentals of Computers and Networks (FCN)

Session 1:

Q.No.1. The maximum frame size supported by a communication link is known as?

A: Load   B: Reliability   C: MTU   D: Delay

Session 2:

Q.No.3. Which of the following IP Header field is used by the traceroute (tracert) command to find the route to the destination?

A. TTL   B: Header Length   C: Version   D: Flags

Q.No.4. Which of the following command allows you to release IP address assigned to the computer and get it renewed from the DHCP server?

A: netstat   B: ipconfig   C: arp   D: tracert

Q.No.5. Which of the following command allows you to view the IP address and MAC address mapping that the computer has learned over the network?

A: netstat   B: ipconfig   C: arp   D: ping

Session 3:

Q.No.6. Which of the following cable can be used for long distance reliable connectivity?

A. UTP Cable   B: Multi Mode Fiber

C: STP Cable   D: Single Mode Fiber

Q.No.7. Which of the following statement is true about the STP cable?

A: It can be used for a distance more than 100 meters.

B: supports more throughput as it has more cores than UTP

C. It is less affected by the Electro Magnetic Interference than UTP

D. It uses Infrared light for data transmission.

Session 4

Q.No.8. Which of the following OSI layer states the requirement of an address like the MAC address?

A: Physical   B: Data Link   C: Network   D: Transport

Q.No.9. Which of the following OSI layer works to provide host to host reliable data transfer?

A: Transport   B: Network   C: Presentation   D: Physical

Q.No.10. Which of the following OSI layer is not mapped by the Application layer of the TCP/IP model?

A: Session B: Application C: Network D: Presentation

Session 5

Q.No.11. Which of the following function is provided by the data link layer in the Ethernet technology?

A: Error Correction B: Encryption

C: Route Identification D: Error Detection

Q.No.12. Which of the following ICMP packet is sent by the host when you ping to a network computer from it?

A: Echo Reply B: Ping request C: Echo request D: Ping reply

Q.No.13. Which of the following device can function at Layer 2 and layer 3?

A: Hub B: Switch C: Repeater D: Bridge

Session 6

Q.No.14. What is the first field of the Ethernet frame without considering Preamble?

A: Source MAC Address B: Type

C: DATA D: Destination MAC Address

Q.No.15. What is Fast Ethernet?

A: It supports 10/100 Mbps speed B: It supports only 10 Mbps speed

C: It supports only 100 Mbps speed D: It supports 1 Gbps speed

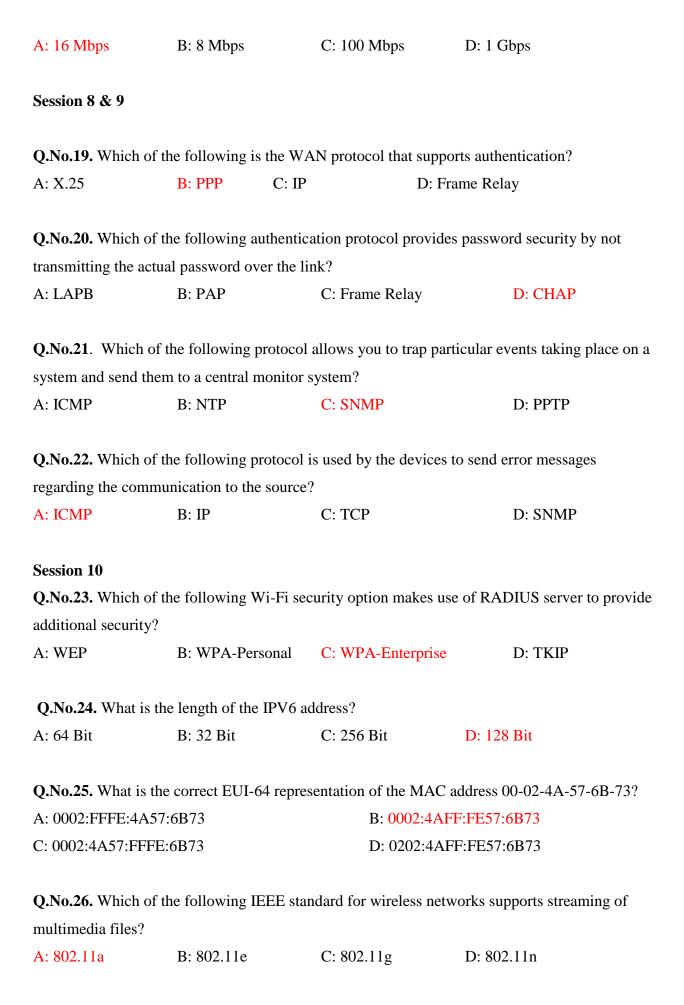**Q.No.16.** What is the maximum frame size supported by the Ethernet?

A: 64 Bytes B: 600 Bytes C: 1518 Bytes D: 1024 Bytes

Session 7

Q.No.17. Which of the following technology is defined by the IEEE 802.5 specification?

A: Wireless B: Token Ring C: Ethernet D: Frame Relay

Q.No.18. What is the maximum speed supported by the Token Ring network while using Twisted pair cables?

A: 16 Mbps   B: 8 Mbps   C: 100 Mbps   D: 1 Gbps

Session 8 & 9

Q.No.19. Which of the following is the WAN protocol that supports authentication?

A: X.25   B: PPP   C: IP   D: Frame Relay

Q.No.20. Which of the following authentication protocol provides password security by not transmitting the actual password over the link?

A: LAPB   B: PAP   C: Frame Relay   D: CHAP

Q.No.21. Which of the following protocol allows you to trap particular events taking place on a system and send them to a central monitor system?

A: ICMP   B: NTP   C: SNMP   D: PPTP

Q.No.22. Which of the following protocol is used by the devices to send error messages regarding the communication to the source?

A: ICMP   B: IP   C: TCP   D: SNMP

Session 10

Q.No.23. Which of the following Wi-Fi security option makes use of RADIUS server to provide additional security?

A: WEP   B: WPA-Personal   C: WPA-Enterprise   D: TKIP

Q.No.24. What is the length of the IPV6 address?

A: 64 Bit   B: 32 Bit   C: 256 Bit   D: 128 Bit

Q.No.25. What is the correct EUI-64 representation of the MAC address 00-02-4A-57-6B-73?

A: 0002:FFFE:4A57:6B73   B: 0002:4AFF:FE57:6B73

C: 0002:4A57:FFFE:6B73   D: 0202:4AFF:FE57:6B73

Q.No.26. Which of the following IEEE standard for wireless networks supports streaming of multimedia files?

A: 802.11a   B: 802.11e   C: 802.11g   D: 802.11n

Session 11

Q.No.27. What will be the subnet mask if 18 bits are reserved for the network addressing?

A: 255.255.192.0   B: 255.255.255.192   C: 255.192.0.0D: 255.255.0.0

Q.No.28. Which of the following NAT option allows multiple LAN clients to use same public IP address to access internet?

A: Static NAT B: Dynamic NAT   C: NAT Overload   D: DNAT

Q.No.29. How many hosts you get within a IP subnet, with the subnet mask of /19?

A: 64 Hosts   B: 16 Hosts   C: 8 Hosts   D: 32 Hosts

Q.No.30. Which of the following is the broadcast address for a network address and subnet mask combination of 192.168.10.0 / 255.255.255.240?

A: 192.168.10.18   B: 192.168.10.47   C: 192.168.10.54   D: 192.168.10.125

Session 12

Q.No.31. You have configured routers between 4 IP subnets. You have sub netted a network address 192.168.1.0 to create 4 IP subnets. You have configured RIP however the network is not established. What may be the reason?

A: You configured RIP version 1   B: RIP does not supports IPV4

C: You forgot to enter static routes   D: RIP is not a routing protocol

Q.No.32. What is the default administrative distance for OSPF?

A: 90   B: 100   C: 110   D: 120

Q.No.33. Which of the following protocol does not supports Variable Length Subnet mask?

A: EIGRP   B: OSPF   C: RIP v2   D: IGRP

Session 13

Q.No.34. Which of the following header field of the IP protocol is reduced by 1 by each router before forwarding the IP packet?

A: Header Length   B: Destination IP address

C: TTL   D: Source IP address

Q.No.35. Which of the following IP header field flag is used by the TCP protocol to find the MTU supported between the source and the destination?

A: TTL B: Don't Fragment C: More Fragments D: HLEN

Q.No.36. Which of the following ICMP packet type is used by the routers to inform source when the TTL value in the packet becomes zero.

A: 0 B: 3 C: 11 D: 8

Session 14

Q.No.37. Which of the following protocol on manageable switches helps to avoid switching loops?

A: ICMP B: VTP C: NNTP D: STP

Q.No.38. Which of the following protocol helps admin replicate the VLAN information across multiple switches within the network?

A: VTP B: STP C: ICMP D: SNMP

Q.No.39. How many collision domains are created by a HUB?

A: 1 B: 2 C: 255 D: Depends on no. of ports

Q.No.40. How many broadcast domains will be created by a 24 port switch with the default configuration?

A: 24 B: 2 C: 1 D: 255

Q. No. 1

Question:
Which functions of the OSI model occur at layer two?
Answer Choices

A: physical addressing

B: encoding

C: routing

D: cabling

Q. No. 2

Question:
A technician is asked to secure the privileged EXEC mode of a switch by requiring a password. Which type of password would require this login and be considered the most secure?
Answer Choices

A: console

B: enable

C: enable secret

D: VTY

Q. No. 3

Question:
Which OSI layer does IP rely on to determine whether packets have been lost and to request retransmission?
Answer Choices

A: application

B: presentation

C: session

D: transport

Q. No. 4

Question:
When connectionless protocols are implemented at the lower layers of the OSI model, what is usually used to acknowledge that the data was received and to request the retransmission of missing data?
Answer Choices

A: IP
B: UDP
C: Ethernet
D: an upper-layer, connection-oriented protocol or service

Q. No. 5

Question:
Which subnet mask will allow 2040 hosts per subnet on the IP network 10.0.0.0?
Answer Choices

A: 255.255.0.0

B: 255.255.254.0

C: 255.255.252.0

D: 255.255.248.0

Q. No. 6

Question:
Which statement is true about the TTL value of an IPv4 packet?
Answer Choices

A: It determines the priority of a packet.
B: It specifies the remaining "life" of the packet.
C: It indicates that the packet has been fragmented.
D: It denotes the data payload type that the packet is carrying.
Q. No. 7

Question:
What type of network is maintained if a server takes no dedicated role in the network?
Answer Choices

A: mainframe   B: client/server
C: peer-to-peer   D: centralized

Q. No. 8

Question:
A routing issue has occurred in your internetwork. Which of the following type of devices should be examined to isolate this error?
Answer Choices

A: access point   B: hub
C: router   D: switch
Q. No. 9

Question:
A user sees the command prompt: Router(config-if)#. What task can be performed at this mode?
Answer Choices

A: Reload the device.
B: Perform basic tests.
C: Configure individual interfaces.
D: Configure individual terminal lines.
Q. No. 10

Question:
What information can be gathered by using the command netstat?
Answer Choices

A: the default gateway

B: the routing protocol
C: active TCP connections
D: the locally configured subnet mask

Q. No. 11

Question:
How can ARP be used to help document the network?
Answer Choices

A: It can list each hop on the way to a destination host.
B: It can show the average latency of hosts on the network.
C: It can provide a list of physical addresses on the network.
D: It can indicate which hosts are not responding to network traffic.
Q. No. 12

Question:
What is the protocol data unit that is associated with the data link layer of the OSI reference model?
Answer Choices

A: data   B: frame
C: packet   D: segment
Q. No. 13

Question:
Which application layer protocol allows administrators to log into a server from remote locations and control a server as though logged in locally?
Answer Choices

A: DNS   B: FTP
C: SMTP   D: Telnet
Q. No. 14

Question:
Which statement identifies the DNS protocol?
Answer Choices

A: It transmits information using TCP port 25.
B: It transfers and conveys information using HTML pages.
C: It matches a resource name with the required network address.
D: It requests and assigns an IP address, default gateway, and server addresses to hosts.

Q. No. 15

Question:
Which password would allow a user to establish a Telnet session with a Cisco device?
Answer Choices

A: VTY password   B: enable password
C: console password   D: enable secret password
Q. No. 16

Question:
Which identifier is contained in the header of the Layer 2 Ethernet frame?
Answer Choices

A: timing and synchronization of bits
B: source and destination port numbers
C: logical source and destination addresses
D: physical source and destination addresses
Q. No. 17

Question:
What happens when a node on an Ethernet network is creating a frame and it does not have the destination MAC address?
Answer Choices

A: The node drops the frame.
B: The node sends out a Layer 3 broadcast message.
C: The node sends a message directly to the router for the address.
D: The node sends out an ARP request with the destination IP address.

Q. No. 18

Question:
An administrator makes changes to the default configuration of a router and saves them to NVRAM. After testing, it is discovered that the configurations did not have the desired effect and must be removed. What steps must be taken to remove the changes and return the router to the default configuration?
Answer Choices

A: Reboot the router.
B: Use no version of the commands that are issued.
C: Issue the erase startup-config command, and then reboot the router.
D: Issue the erase running-config command, and then reboot the router.
Q. No. 19

Question:
A network administrator is tasked with connecting two workgroups that are configured to use different subnets. Which device should be selected to allow connectivity between users on the two networks?
Answer Choices

A: hub   B: switch
C: router   D: wireless access point
Q. No. 20

Question:
Which program can be used to accomplish terminal emulation for configuring a router from the CLI through the console port?
Answer Choices

A: HyperTerminal   B: Internet Explorer
C: Secure Shell   D: Telnet

Q. No. 21

Question:
Which statement accurately describes file sharing in a peer-to-peer network?
Answer Choices

A: A dedicated server is required.
B: Access control is decentralized.
C: Files are typically stored on the most powerful peer in the network.
D: Peers can either make requests, or respond to requests, but not both.
Q. No. 22

Question:
What is primary responsibilities of the Ethernet MAC sublayer?
Answer Choices

A: frame delimiting   B: data encapsulation
C: logical addressing   D: error detection
Q. No. 23

Question:
Which router configuration mode would an administrator use to configure the router for SSH or Telnet login access?
Answer Choices

A: line   B: router
C: global   D: interface
Q. No. 24

Question:
What purpose does a hostname serve on a router?
Answer Choices

A: uniquely identifies a router on the internet
B: used by routing protocols to identify peer routers
C: provides device identification to users logging on remotely
D: determines the hosts that are allowed to connect to the device

Q. No. 25

Question:
Which prompt is associated with the privileged exec mode?
Answer Choices

A: R1>   B: R1#
C: R1(config)#   D: R1(config-router)#
Q. No. 26

Question:
A technician wishes to connect two computers to move data from one to the other before reloading the operating system. The NICs on both PCs do not support autosensing feature. Which procedure will satisfy the requirement?
Answer Choices

A: Interconnect the two PCs with a rollover cable.
B: Interconnect the two PCs with two rollover cables and a hub.
C: Interconnect the two PCs with a crossover cable.
D: Interconnect the two PCs with two crossover cables and a hub.
Q. No. 27

Question:
Two routers are connected via their serial ports in a lab environment. The routers are configured with valid IP addresses, but they cannot ping each other. The show interface serial0/0 command shows that the serial0/0 interface is up but the line protocol is down. What could be the cause of this problem?
Answer Choices

A: The no shutdown command has not been applied to the interfaces.
B: The clock rate command has not been entered on the DCE interface.
C: The interface timers are not cleared.
D: The Fast Ethernet interface is emulating a serial interface by assigning it a timing signal.

Q. No. 28

Question:
An organization has been assigned network ID 10.10.128.0 and subnet mask 255.255.224.0. Which IP address range can be used for this organization?
Answer Choices

A: 10.10.128.0 to 10.10.160.255   B: 10.10.128.0 to 10.10.159.255

C: 10.10.128.0 to 10.10.192.255   D: 10.10.128.0 to 10.10.0.159

Q. No. 29

Question:
When must a router serial interface be configured with the clock rate command?
Answer Choices

A: when the interface is functioning as a DTE device
B: when the interface timers have been cleared
C: when the connected DTE device is shut down
D: when the interface is functioning as a DCE device

Q. No. 30

Question:
Due to a security violation, the router passwords must be changed. What information can be learned from the following configuration entries?
Router(config)# line vty 0 3
Router(config-line)# password c13c0
Router(config-line)# login
Answer Choices

A: The entries specify three Telnet lines for remote access.
B: The entries specify four Telnet lines for remote access.
C: The entries set the console and Telnet password to "c13c0″.
D: Telnet access will be denied because the Telnet configuration is incomplete.

Q. No. 31

Question:
Which password is automatically encrypted when it is created?
Answer Choices

A: vty   B: console
C: enable secret   D: enable password

Q. No. 32

Question:
Which prompt represents the appropriate mode used for the copy running-config startup-config command?
Answer Choices

A: Switch-6J>   B: Switch-6J#
C: Switch-6J (config) #   D: Switch-6J (config-if) #

Q. No. 33

Question:
Which information is used by the router to determine the path between the source and destination hosts?
Answer Choices

A: the host portion of the IP address
B: the network portion of the IP address
C: host default gateway address
D: the MAC address

Q. No. 34

Question:
Well-known services and applications use which range of TCP/UDP port numbers?
Answer Choices

A: 0 to 255   B: 0 to 1023
C: 1024 to 49151   D: 49152 to 65535

Q. No. 35

Question:
Which IPv4 address represents subnet broadcast addresses?
Answer Choices

A: 192.168.4.63 /26   B: 192.168.4.129 /26
C: 192.168.4.51 /27   D: 192.168.4.221 /27

Q. No. 36

Question:
Which statement is true about network layer addressing?
Answer Choices

A: The addresses are 48 bits long.
B: Network layer addressing is used by Ethernet switches to make forwarding decisions.

C: A portion of the address is used to identify the network.
D: It does not support broadcasts.
Q. No. 37

Question:
Which OSI layer addressing is required to route packets between two networks?
Answer Choices

A: Layer 1   B: Layer 2
C: Layer 3   D: Layer 4
Q. No. 38

Question:
How many host addresses may be assigned when using the 128.107.0.0 network address with a subnet mask of 255.255.248.0?
Answer Choices

A: 30   B: 256
C: 2046   D: 2048

Q. No. 39

Question:
During the encapsulation process, what is the PDU of the internet layer?
Answer Choices

A: bit   B: data
C: frame   D: packet
Q. No. 40

Question:
Which service is used when the nslookup command is issued on a computer?
Answer Choices

A: FTP   B: DNS

C: DHCP

Q. No. 1

Question:
What are the default terminal emulation software settings when configuring a Cisco device through a console port?
Answer Choices

A: Bits per second: 19200
Data bits: 7
Parity: None
Stop bits: 0
Flow control: None
B: Bits per second: 9600
Data bits: 8
Parity: None
Stop bits: 1
Flow control: None
C: Bits per second: 19200
Data bits: 7
Parity: None
Stop bits: 0
Flow control: Hardware
D: Bits per second: 9600
Data bits: 8
Parity: None
Stop bits: 1
Flow control: Hardware

Q. No. 2

Question:
In a packet-switched data network, what is used to reassemble the packets in the correct order at the destination device?
Answer Choices

A: source address
B: sequence number
C: priority assignment
D: destination address

Q. No. 3

Question:
Which router configuration mode will require user authentication if an administrator issues the enable secret command?
Answer Choices

A: user executive mode
B: privileged executive mode
C: global configuration mode
D: service specific configuration mode

Q. No. 4

Question:
Which location of router memory is cleared with the erase startup-config command?
Answer Choices

A: flash
B: RAM
C: ROM
D: NVRAM
Q. No. 5

Question:
Which subnet mask should be used for a Class B network that is divided into subnets and will accommodate between 800 hosts and 1000 hosts?
Answer Choices

A: 255.255.255.0
B: 255.255.254.0
C: 255.255.252.0
D: 255.255.248.0
Q. No. 6

Question:
Which prompt is associated with the user exec mode?
Answer Choices

A: R1>
B: R1#
C: R1(config)#
D: R1(config-router)#
Q. No. 7

Question:
What is the effect of using the Router# copy running-config startup-config command on a router?
Answer Choices

A: The contents of ROM will change.
B: The contents of RAM will change.
C: The contents of NVRAM will change.
D: The contents of flash will change.
Q. No. 8

Question:
In a network design project, a network designer needs to select a device to provide collision free connections to 40 hosts on the LAN. Which device should be selected?
Answer Choices

A: hub
B: router
C: switch
D: firewall
Q. No. 9

Question:
Which communication tool allows real-time collaboration?
Answer Choices

A: wiki
B: e-mail

C: weblog
D: instant messaging
Q. No. 10

Question:
Which range of port numbers are reserved for services that are commonly used by applications that run on servers?
Answer Choices

A: 0 to 255
B: 0 to 1023
C: 1024 to 49151
D: 49152 to 65535
Q. No. 11

Question:
Which OSI layer manages data segments?
Answer Choices

A: application layer
B: presentation layer
C: session layer
D: transport layer
Q. No. 12

Question:
Which type of media can provide bandwidth up to 1 Gb/s?
Answer Choices

A: 10 BASE-T
B: 100 BASE-T
C: 100 BASE-FX
D: 1000 BASE-TX
Q. No. 13

Question:
A user enters http://www.cisco.com/web1.htm in the address line of a browser. Which statement is true about this transaction?
Answer Choices

A: The "http" portion indicates the protocol that is being used.
B: The "web1.htm" portion is the specific service name.
C: The retrieved web page will be displayed in URL code.
D: The "www.cisco.com" is the name of the web page file that is called
Q. No. 14

Question:
What can the user do from the command prompt, Router(config-line)#?
Answer Choices

A: Configure one of the network interfaces.
B: Configure one of the physical or virtual lines.
C: Verify the running configuration on the device.
D: Configure the parameters for one of the routing protocols.

Q. No. 15

Question:

A technician is setting up a workgroup for six users and wants to allow users to share files without setting up a server. Which application layer protocol will provide for peer-to-peer file sharing in a workgroup?
Answer Choices

A: DNS
B: SMB
C: HTTP
D: DHCP
Q. No. 16

Question:
Which router component will have contents erased when the command erase startup-config is issued?
Answer Choices

A: flash
B: RAM
C: ROM
D: NVRAM
Q. No. 17

Question:
What is described by the network access layer of the TCP/IP model?
Answer Choices

A: rules for packet acknowledgment, error recovery, and sequencing
B: rules for the handoff from the internet layer to the network access protocols
C: rules for how source and destination hosts exchange data between programs
D: rules for determining which processes can be used to route messages through an internetwork
Q. No. 18

Question:
A network technician has made a UTP cable that is terminated as T568A on one end and T568B on the opposite end. What type of cable has been constructed?
Answer Choices

A: patch
B: console
C: crossover
D: straight-through
Q. No. 19

Question:
Which application belongs to the category of the client/server model?
Answer Choices

A: using Telnet to access a router
B: exchanging information via instant messaging
C: printing a document to a locally connected printer
D: scanning a document with a directly connected scanner
Q. No. 20

Question:
What command can be used to troubleshoot domain name resolution issues?
Answer Choices

A: get
B: arp -a

C: tracert
D: nslookup

Q. No. 21

Question:
Which address belongs to the category of public IP addresses?
Answer Choices

A: 127.0.0.1
B: 196.1.105.6
C: 10.0.0.1
D: 172.16.9.10

Q. No. 22

Question:
What is the effect of the command copy running-config tftp?
Answer Choices

A: copies the configuration from a remote machine into RAM
B: copies the configuration from a remote machine into NVRAM
C: copies the configuration currently in RAM to a remote machine
D: copies the configuration currently in NVRAM to a remote machine

Q. No. 23

Question:
A technician makes several changes to the running configuration on a router, but the desired results are not achieved. The technician issues the reload command. What action will be taken by the router?
Answer Choices

A: All changes will be lost and the router will restart immediately.
B: Changes will be saved automatically and the router will restart.
C: The user will be prompted to save changes before the router restarts.
D: The router will detect changes to the running configuration and will reload using the configuration stored in RAM.

Q. No. 24

Question:
Which scenario describes a typical peer-to-peer network environment?
Answer Choices

A: An employee downloads a file that is stored on a departmental file server.
B: An employee edits and reviews web pages on a web server that is located in the server farm.
C: A teleworker logs into a core router of the corporate network and makes a configuration change.
D: A user on one office PC sends output to a printer that is attached to the USB port of another PC in an adjacent office.

Q. No. 25

Question:
What type of cable is being used if a network administrator is connecting two Cisco routers and uses the 100BaseTX standard?
Answer Choices

A: rollover cable
B: smart serial cable
C: crossover UTP
D: straight-through UTP
Q. No. 26

Question:
A PC cannot connect to any remote websites, ping its default gateway, or ping a printer that is functioning properly on the local network segment. Which action will verify that the TCP/IP stack is functioning correctly on this PC?
Answer Choices

A: Use the ipconfig /all command at the host's command prompt.
B: Use the ping 127.0.0.1 command at the command prompt.
C: Use the traceroute command at the command prompt to identify any failures on the path to the gateway.
D: Use FTP to check for connectivity to remote sites.
Q. No. 27

Question:
What is purpose for configuring a banner on a router?
Answer Choices

A: to announce system downtime
B: to prevent unauthorized access to the router
C: to provide a description of interface connections
D: to assist in legal prosecution for unauthorized access

Q. No. 28

Question:
Which device should be used for enabling a host to communicate with another host on a different network?
Answer Choices

A: switch
B: hub
C: router
D: host
Q. No. 29

Question:
During the encapsulation process, what identifiers are added at the transport layer?
Answer Choices

A: source and destination IP addresses
B: source and destination MAC addresses

C: source and destination port numbers
D: source and destination channel identifiers
Q. No. 30

Question:
What action is taken by a host on an Ethernet network when the host attempts to contact a remote host on another network?
Answer Choices

A: The PDU is sent using the IP and MAC address of the destination host.
B: The PDU is sent using the IP address and MAC address of the default gateway.
C: The PDU is sent using the IP address of the destination host and MAC address of the default gateway.
D: The PDU is sent using the IP address of the default gateway and the MAC address of the destination host.

Q. No. 31

Question:
A network administrator needs to provide administrative access for certain users. Which mode will allow users access to both the show and debug commands?
Answer Choices

A: user executive mode
B: privileged executive mode
C: global configuration mode
D: router configuration mode
Q. No. 32

Question:
Which statement is true about Layer 3 addresses?
Answer Choices

A: They are physical addresses.
B: They are used in routing decisions.
C: They are only used on local networks.
D: They are altered each time a packet crosses a router.
Q. No. 33

Question:
A network technician wants to configure an IP address on a router interface by using the ip address 192.168.1.1 255.255.255.0 command. Which prompt should the technician see when entering this command?
Answer Choices

A: Router>
B: Router(config-if)#
C: Router#
D: Router(config)#

Q. No. 34

Question:
UDP is the transport layer protocol for which application?
Answer Choices

A: SMTP
B: Telnet
C: TFTP
D: FTP-data control
Q. No. 35

Question:
What is the Cisco IOS?
Answer Choices

A: system software for Cisco devices
B: Read Only Memory in Cisco devices
C: non-volatile storage for device configurations
D: an initial operating system that is used for boot functions
Q. No. 36

Question:
A network has grown too large for technicians to configure network addresses and hosts files for name resolution. Which one application layer services should be added to the server to allow these needs to be satisfied dynamically?
Answer Choices

A: FTP
B: DHCP
C: HTTP
D: SMTP

Q. No. 37

Question:
An administrator needs management access to a switch from a remote offsite location. Which configuration is required on the switch to allow the administrator to have remote access using either SSH or Telnet?
Answer Choices

A: default gateway
B: banner message
C: VLAN IP address
D: vty line password

Q. No. 38

Question:
Which command will change the current configuration mode of a router?
Answer Choices

A: line vty 0 4
B: password class
C: hostname RouterA
D: enable secret class

Q. No. 39

Question:
Which factor contributes to the increased throughput when all nodes of a LAN are

connected to a switch instead of a hub?

Answer Choices

A: collision-free environment
B: logical bus media access
C: broadcast-free environment
D: point-to-multipoint topology

Q. No. 40

Question:
When must a router serial interface be configured with the clock rate command?

Answer Choices

A: when the interface is functioning as a DTE device
B: when the interface timers have been cleared
C: when the connected DTE device is shut down
D: when the interface is functioning as a DCE device