CCNA Interviews questions Papers:

Which OSI layer handles physical address, network topology?

\* Presentation

\* Physical

\* Transport

\* Application

\* Data-Link

\* Network

Correct answer: E

Layer 2 the Data-Link layer performs this function.

Identify 2 reasons for disabling CDP?

\* If the router is not configured for RIP

\* Save bandwidth by eliminating overhead

\* If the router is configured for Appletalk

\* When connected to a non-Cisco router

Correct answer: B D

CDP can be disabled here are a couple of reasons. Connecting a Cisco router to a non-Cisco router. Don’t want to exchange CDP information to save bandwidth.

Identify 3 characteristics of ISDN?

\* Transports voice and data

\* Transports voice only

\* Support both BRI and PRI

\* Runs over existing phone lines

\* Same as X.25

Correct answer: A C D

ISDN supports voice, data, and video. It runs over existing phone lines and supports 128K (BRI) and T1 (PRI).

Identify the 3 characteristics of IGRP?

\* Uses hop count as a metric

\* Supports multiple unequal paths

\* Administrative distance is 100

\* Configured with an Autonomous system number

\* Link state

Correct answer: B C D

IGRP is a distance vector routing protocol, it’s degree of trustworthiness is 100, it can support up to 6 un-equal paths and must be configured with an autonomous system number.

Identify 2 features of PPP CHAP authentication?

\* Username and password is sent in clear text

\* Authentication messages are sent periodically during the connection

\* Less secure then PAP

\* Local router ‘challenges’ the remote router

Correct answer: B D

PPP CHAP authentication message are sent periodically during the connection by challenging the other end of the connection.

It is more secure than PAP and passwords and username are encrypted.

Identify the default IPX serial encapsulation?

\* Novell-Ether

\* SDLC

\* SNAP

\* HDLC

Correct answer: D

The default IPX serial encapsulation is HDLC.

Identify the hardware component that stores the backup configuration?

\* RAM

\* NVRAM

\* Flash

\* ROM

Correct answer: B

NVRAM contains the backup config. RAM is the dynamic memory area, ROM contains the boot strap code and Flash contains the IOS.

Identify the extended IP access-list number range?

\* 600 - 699

\* 1 - 99

\* 900 - 999

\* 100 - 199

Correct answer: D

The extended IP access-list range is 100-199.

Identify 3 Fast Ethernet technologies?

\* 100 Base FastEther

\* 100 Base FX

\* 100 Base T4

\* 100 Base TX

Correct answer: B C D

BaseFastEther is false. 100 Base FX, TX and T4 are all valid.

Identify the OSI layer which is responsible for end-to-end connections?

\* Network

\* Transport

\* Session

\* Data link

\* TCP

Correct answer: B

Layer 4 is the Transport layer and is responsible for end-to-end connections.

Identify the 2 characteristics regarding MAC addresses?

\* Contains a network portion and host portion

\* Always assigned by System Administrator

\* 48 bits long

\* Contains a vendor code and serial number

Correct answer: C D

MAC addresses are assigned by the vendor. Each MAC address is 48 bits long and made up of 24 bits vendor code and 24 bits serial number.

Identify the number range for IPX SAP filters?

\* 900 - 999

\* 1000 - 1099

\* 800 -899

\* 100 - 199

Correct answer: B

The IPX SAP filtering range is 1000-1099.

What is the purpose of ARP?

\* IP to host name resolution

\* Host name to IP address resolution

\* Mac to IP address resolution

\* IP to Mac address resolution

Correct answer: D

Address Resolution Protocol resolves the MAC address if the IP address is known. It is a layer 3 protocol.

Which OSI layer establishes, maintains and terminates sessions between hosts?

\* Application

\* Physical

\* Data-Link

\* Presentation

\* Network

\* Session

Correct answer: F

Layer 5 the Session layer performs this function.

Which statement is true regarding Administrative distance?

\* It is a metric

\* Number of hops between two routers

\* Trustworthiness of the routing information

\* RIP Administrative distance is 100

Correct answer: C

Administrative distance is rating of trustworthiness of the routing information. The lower the AD the better the information.

Identify the purpose of the Ping command?

\* Share routing information with a neighbor router

\* Transmit user data when buffers are full

\* Test connectivity at layer 3

\* Test entire protocol stack

Correct answer: C

The ping command tests layer 3 connectivity.

Identify the order of the 5 step encapsulation?

1. Create the segment

2. Convert the frame to bits

3. Create the packet

4. Create the frame

5. User creates the data

\* 1,2,4,2,5

\* 2,1,3,4,5

\* 5,1,3,4,2

\* 5,3,4,1,2

Correct answer: C

Cisco 5 step encapsulation.

1) User creates Data

2) Data is converted into a segment at layer 4

3) The segment is converted to packet at layer 3

4) The packet it converted into a frame at layer 2

5) The frame is converted into bits at layer 1

The Cisco IOS is stored where?

\* ROM

\* CD

\* Flash

\* NVRAM

Correct answer: C

By default the Cisco IOS is stored in flash.

Sequence and acknowledgement numbers are used for?

\* Layer transitioning

\* Flow control

\* Port number addressing

\* Reliability

Correct answer: D

TCP uses sequence numbers and acknowledgements to implement reliability.

Identify IPX GNS and it’s purpose?

\* Go Network Server - sends a print job to a network server

\* Get Nearest Server - locate the nearest server

\* Guaranteed Network Services - allocates resources to users

\* Get Notes Server - locates Domino Server

Correct answer: B

GNS stands for Get Nearest Server, initiated by a workstation.

Identify the true statement regarding subnetting?

\* Allows for more host address

\* Borrow bits from the network portion of the address

\* Allows for unlimited number of networks

\* Borrow bits from the host portion of the address

Correct answer: D

Subnetting involves borrowing bits for the host portion of the address to be used to subnet addressing.

Inverse ARP serves what purpose?

\* Method for a local router to introduce itself to the remote end of the connection

\* Broadcast a routing table update

\* Identify MAC addresses if the IP address is known

\* Sent every 10 seconds used to verify the Frame Switch is still active

Correct answer: A

Inverse ARP operates in a Frame Relay network so the two end points can identify themselves to each other.

Identify 3 characteristics of a MAC address?

\* Burned into the NIC

\* 48 bits long

\* Length is 32 bits

\* Used to deliver the frame to the end device

\* Contains a network portion and a host portion

Correct answer: A B D

The MAC address is 48 bits long not 32. It does NOT contain a network and host portion with the address. It is used to deliver the frame to the destination device.

Identify 3 IP routing protocols?

\* RIP

\* AURP

\* OSPF

\* IGRP

\* ARP

\* ICMP

Correct answer: A C D

AURP and ICMP are not routing protocols.

Identify the type of routing protocol that exchanges entire routing tables at regular intervals?

\* Link state

\* Interior gateway protocols

\* Appletalk routing

\* Distance vector

Correct answer: D

Distance Vector routing protocols exchange entire routing tables with it’s neighbors. Link State routing protocols exchange LSP’s to share information regarding the networks they know.

Identify the type of hardware required to connect a Token ring network to an Ethernet network?

\* Repeater

\* TR-Enet

\* Router

\* Token Ring to Ethernet translation hub

Correct answer: C

Routers are used to connect dissimilar networks with different access-methods, like connecting Token Ring to Ethernet.

Identify 3 characteristics regarding CDP?

\* On by default

\* Shows only directly connected neighbors

\* Requires IP or IPX

\* 60 second update interval by default

\* 30 second updates interval by default

Correct answer: A B D

CDP stands for Cisco Discovery Protocol. It is used to discover directly connected neighbors, it is on by default and has a 60 second update interval by default.

Identify 2 transport layer protocols?

\* IP

\* TCP

\* CDP

\* ARP

\* UDP

Correct answer: B E

TPC and UDP are 2 layer4 Transport protocols.

Identify 2 features of X.25?

\* Supports only IP

\* Utilizes switched and permanent virtual circuits

\* Contains minimal flow control and error recovery

\* Utilizes LAPB as it’s data-link protocol

Correct answer: B D

X.25 utilizes LAPB and uses switched and permanent VC’s. It supports multiple layer protocols and is heavy laden with error detection and correction mechanisms.