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Sections

- 1. General Networking Knowledge
- 2. Cisco Equipment and Related Hardware
- 3. Cisco IOS Software Operation
- 4. Service-related Knowledge



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100-490

Supporting Cisco Routing and Switching Network Devices v3.0



CEplus

Exam A

QUESTION 1

Which protocol does TFTP typically use for transport?

A. RSVP

B. TCP

C. HTTP

D. UDP

Correct Answer: D

Section: General Networking Knowledge Explanation

Explanation/Reference:

QUESTION 2 What is the correct IPv6

address notation?

A. 2001:0DB8::/128

B. 2001:0DB8:0::

C. 2001:0DB8::1:1:1:1:1

D. 2001:0DB8:130F:0000:0000:7000:0000:140B

Correct Answer: D

Section: General Networking Knowledge

Explanation

Explanation/Reference:

QUESTION 3 Which two statements about Telnet and SSH are true? (Choose two.)

- A. SSH is a protocol that provides a secure remote access connection to network devices.
- B. SSH uses the well-known TCP port 23 for its communication.
- C. A Telnet network management connection is dropped when a router reboots.
- D. Telnet is a protocol that provides a secure remote access connection to network devices.
- E. Telnet is preferred over SSH for security reasons.

Correct Answer: AC

Section: General Networking Knowledge

Explanation

Explanation/Reference:

QUESTION 4 Which address facilitates the routing of packets over an IP network?

- A. physical
- B. transport
- C. network
- D. MAC





Correct Answer: C

Section: General Networking Knowledge

Explanation

Explanation/Reference:

QUESTION 5 Which two IPv4 addresses can be assigned to a host computer?

(Choose two.)

A. 255.255.255.255

B. 10.1.1.20

C. 0.0.0.0

D. 192.168.10.15

E. 292.10.3.4

Correct Answer: BD

Section: General Networking Knowledge

Explanation

Explanation/Reference:

QUESTION 6 What are two components of a WAN connection?

(Choose two.)

A. CSU/DSU

B. router

C. bridgeD. hub

E. switch

Correct Answer: AB

Section: General Networking Knowledge

Explanation

Explanation/Reference:

QUESTION 7 Which device is

a DTE device?

A. CSU/DSU

B. router

C. cable modem

D. DSL modem

Correct Answer: B

Section: General Networking Knowledge

Explanation

Explanation/Reference:

QUESTION 8 Which layer of the OSI model defines how data is formatted for transmission and how access to the physical media is controlled?

A. presentation

B. data link





C. network

D. transport

Correct Answer: B

Section: General Networking Knowledge

Explanation

Explanation/Reference:

 $\textbf{Reference:} \ \underline{\text{https://itcertzone.wordpress.com/2011/01/24/the-seven-layers-of-the-osi-model/\#:$\sim:} \\ \textbf{text=Layer\%202\%3A\%20The\%20Data\%20Link,reliable\%20delivery\%20of\%20the\%20data.} \\ \textbf{10.1/24/the-seven-layers-of-the-osi-model/\#:$\sim:} \\ \textbf{10.1/24/the-seven-layers-of-the-osi-model/#:$\sim:} \\ \textbf{10.1/24/the-seven-layers-of-the-osi-model/#:} \\ \textbf{10.1/24/the-seven-layers-of-the-osi-model/#:} \\ \textbf{10.1/24/the-seven-layers-of-the-osi-model/#:} \\ \textbf{10.1/24/the-seven-layers-of-the-osi-model/#:} \\ \textbf{10.1/24/th$

QUESTION 9 Which command shows the status of power supplies and sensor temperatures?

A. show hardware

B. show module

C. show environment

D. show diag

Correct Answer: C

Section: Cisco Equipment and Related Hardware Explanation

Explanation/Reference:

Reference: https://www.cisco.com/c/m/en_us/techdoc/dc/reference/cli/n5k/commands/show-environment.html

QUESTION 10 What are two standard fiber-optic

connectors? (Choose two.)

A. Lucent

B. rollover

C. subscriber

D. multidimension

E. crossover

Correct Answer: AC

Section: Cisco Equipment and Related Hardware Explanation

Explanation/Reference:

QUESTION 11 Which type of physical connector does a Gigabit Ethernet port typically use?

A. RJ-9

B. RJ-45

C. DB-25

D. RJ-11

Correct Answer: B

Section: Cisco Equipment and Related Hardware Explanation

Explanation/Reference:

QUESTION 12

Which two pairs of LAN Ethernet devices use an RJ-45 straight-through cable? (Choose two.)

A. switch-to-switch

B. switch-to-router





C. switch-to-hub

D. router-to-router

E. switch-to-server

Correct Answer: BE

Section: Cisco Equipment and Related Hardware Explanation

Explanation/Reference:

QUESTION 13 Which two features are associated with single-mode fiber-optic cable? (Choose two.)

A. consists of a single strand of glass fiber

B. has higher attenuation that multimode fiber

C. carries a higher bandwidth that multimode fiber

D. costs less than multimode fiber

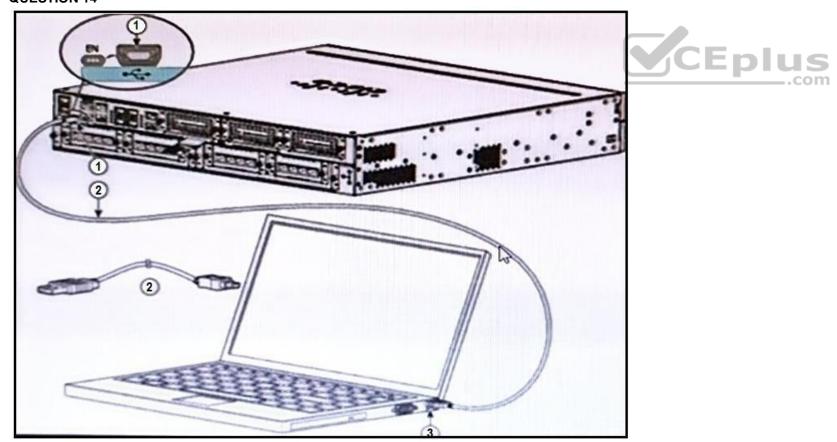
E. operates over less distance than multimode fiber

Correct Answer: AC

Section: Cisco Equipment and Related Hardware Explanation

Explanation/Reference:

QUESTION 14



Refer to the exhibit. Which two statements about the hardware components are true? (Choose two.)

- A. 2 is an RJ-45 to USB Type A console cable.
- B. 3 is a USB Type A port.
- C. 3 is a USB 5-pin mini USB Type B port.



D. 1 is a USB Type A port.

E. 2 is a USB 5-pin mini USB Type B to USB Type A console cable.

Correct Answer: BE

Section: Cisco Equipment and Related Hardware Explanation

Explanation/Reference:

Reference: https://www.cisco.com/c/en/us/td/docs/routers/access/2900/hardware/installation/guide/Hardware Installation Guide/Install Connect.html

QUESTION 15 Which type of transceiver module is used for 40 Gigabit

Ethernet connectivity?

A. SFP+

B. GBIC

C. QSFP+

D. XFP

Correct Answer: C

Section: Cisco Equipment and Related Hardware Explanation

Explanation/Reference:

Reference: https://www.cisco.com/c/en/us/products/interfaces-modules/40-gigabit-modules/index.html#:~:text=The%20Cisco%20QSFP%20BiDi%20transceiver,10%20Gigabit%20Ethernet%20fiber%20infrastructure

QUESTION 16 What is the line speed of a DS0 in

North America?

A. 16 kbps B.

32 kbps

C. 64 kbps

D. 128 kbps

Correct Answer: C

Section: Cisco Equipment and Related Hardware Explanation

Explanation/Reference:

QUESTION 17 Which two ports on a laptop are used to gain console access to a Cisco switch? (Choose two.)

A. DB-9

B. USB

C. DVI

D. RJ-11

E. RJ-45 Ethernet

Correct Answer: AB

Section: Cisco Equipment and Related Hardware

Explanation

Explanation/Reference:

QUESTION 18 Which two statements about a SmartJack are

true? (Choose two.)

A. It provides signal conversion.

B. It acts as a concentration point for dial-in and dial-out connections.





C. It operates at Layer 2 of the OSI model.

D. It provides channel testing.

E. It regenerates the signal to compensate for signal degradation from line transmission.

Correct Answer: AE

Section: Cisco Equipment and Related Hardware Explanation

Explanation/Reference:

QUESTION 19 The colored wires at one end of a cable are in reverse sequence to the colored wires at the other end of the cable. Which cable does this configuration describe?

A. rolled

B. crossover

C. coaxial

D. straight-through

Correct Answer: B

Section: Cisco Equipment and Related Hardware Explanation

Explanation/Reference:

QUESTION 20

Which Cisco CPAK 100GBASE module supports Multimode Fiber cable?

A. Cisco CPAK-100G-CWDM4

B. Cisco CPAK-100G-LR4

C. Cisco CPAK-100G-ER4L

D. Cisco CPAK-100G-SR4

Correct Answer: D

Section: Cisco Equipment and Related Hardware Explanation

Explanation/Reference:

Reference: https://www.cisco.com/c/en/us/products/collateral/interfaces-modules/transceiver-modules/data-sheet-c78-728110.html

QUESTION 21 The pins on an RJ-45 cable plug are numbered from 1 through 8. When the metal pins of the plug are facing toward you, pin 1 is the leftmost pin. Which two sets of pins are looped on an RJ-45 56K loopback plug? (Choose two.)

A. pins 2 and 7 B. pins 2 and 8 C. pins 2 and 5 D.

pins 1 and 7

E. pins 1 and 4

Correct Answer: CE

Section: Cisco Equipment and Related Hardware Explanation

Explanation/Reference:

QUESTION 22 How many pairs of copper wire does a

UTP cable have?





A. 2

B. 3

C. 4

D. 5

Correct Answer: C

Section: Cisco Equipment and Related Hardware Explanation

Explanation/Reference:

QUESTION 23 Which two Cisco Nexus 3400 Series switches support 400-Gbps Ethernet ports? (Choose two.)

A. Cisco Nexus 34180YC

B. Cisco Nexus 34200YC-SM

C. Cisco Nexus 3432D-S

D. Cisco Nexus 3408-S

E. Cisco Nexus 3464C

Correct Answer: CD

Section: Cisco Equipment and Related Hardware Explanation

Explanation/Reference:

Reference: <a href="https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus3400s/sw/922/interfaces/configuration/guide/b_Cisco_Nexus_3400_NX-OS_Interfaces_Configuration_Guide_922

QUESTION 24 Which type of memory stores the configuration of a router or switch by default?

A. RAM

B. ROM

C. NVRAM

D. flash

Correct Answer: A

Section: Cisco Equipment and Related Hardware Explanation

Explanation/Reference:

QUESTION 25 Which two commands identify the serial number of a Cisco router? (Choose two.)

A. show run

B. show inventory

C. show environment

D. show version E. show archive

Correct Answer: BD

Section: Cisco Equipment and Related Hardware Explanation

Explanation/Reference:

QUESTION 26 Which two commands set the configuration register value? (Choose two.)





A. rommon>confreg 0x2102

B. router(config)#confreg 0x2102

C. rommon>config-register 0x2102

D. router(config)#configuration-register 0x2102

E. router(config)#config-register 0x2102

Correct Answer: AE

Section: Cisco IOS Software Operation

Explanation

Explanation/Reference:

QUESTION 27 Which bits represent the boot field in the configuration register value?

A. highest two bits

B. lowest two bits

C. highest four bits

D. lowest four bits

Correct Answer: D

Section: Cisco IOS Software Operation

Explanation

Explanation/Reference:

QUESTION 28 Which type of memory stores the decompressed form of Cisco IOS Software and the running configuration?

A. flash

B. ROM

C. NVRAM

D. DRAM

Correct Answer: D

Section: Cisco IOS Software Operation

Explanation

Explanation/Reference:

QUESTION 29 Which type of memory is used to permanently store Cisco

IOS Software?

A. NVRAM

B. flash

C. SRAM

D. DRAM

Correct Answer: A

Section: Cisco IOS Software Operation

Explanation



QUESTION 30 What is the default operating mode when you initially log in to a router?

A. user EXEC

B. global configuration

C. privileged EXEC

D. ROM monitor

Correct Answer: A

Section: Cisco IOS Software Operation

Explanation

Explanation/Reference:

QUESTION 31 When you deploy Cisco Catalyst 3850 Series switches, which two modes of operation can you choose from?

A. Active mode and Standby mode

B. Install mode and Bundle mode

C. Boot mode and Run mode

D. Exec mode and User mode

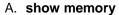
Correct Answer: B

Section: Cisco IOS Software Operation

Explanation

Explanation/Reference:

QUESTION 32 Which command displays a list of file systems that are available on Cisco devices?



B. show directory

C. show file system

D. show version

Correct Answer: C

Section: Cisco IOS Software Operation

Explanation

Explanation/Reference:

QUESTION 33 Which two pieces of information are displayed when you use the **show ip interface brief** command? (Choose two.)

A. Layer 2 address

B. keepalive

C. Layer 3 address

D. encapsulation type

E. interface status

Correct Answer: CE

Section: Cisco IOS Software Operation

Explanation



CEplus

Explanation/Reference:

QUESTION 34 Which command sends an echo request packet to the target host and then waits for an echo response message?

A. echo

B. access

C. ping

D. connect

Correct Answer: C

Section: Cisco IOS Software Operation

Explanation

Explanation/Reference:

QUESTION 35 Which command displays information about the carrier network, cell site, and available service?

A. show cellular unit network

- B. show cellular unit radio
- C. show cellular unit hardware
- D. show cellular unit profile

Correct Answer: A

Section: Cisco IOS Software Operation

Explanation



Explanation/Reference:

Reference: https://www.cisco.com/c/en/us/td/docs/solutions/Verticals/EE/IG-WAN/EE-WAN-IG/EE-WAN-IGch2.html

QUESTION 36 Which two pieces of information about a neighboring device are displayed when you use the CLI command show cdp neighbor? (Choose two.)

A. platform

B. uptime

C. device ID

D. Cisco IOS Software version

E. IP address

Correct Answer: AC

Section: Cisco IOS Software Operation

Explanation

Explanation/Reference:

QUESTION 37 Cisco NX-OS has added the ability to use which type of custom scripting to help manage user networks?

A. C++

B. Collective

C. SQL

D. Python

Correct Answer: D



Section: Cisco IOS Software Operation Explanation Explanation/Reference: QUESTION 38 Which command displays the configuration register setting? A. show flash B. show running-config C. show version D. show config-register **Correct Answer:** C **Section: Cisco IOS Software Operation** Explanation **Explanation/Reference:** QUESTION 39 At the interface configuration prompt, which command returns you to the main configuration prompt? A. end B. clear C. quit D. exit CEplus **Correct Answer:** D **Section: Cisco IOS Software Operation Explanation Explanation/Reference:** QUESTION 40 Which command provides detailed information about the components that are installed on a router, such as the model, PID, and serial number? A. show chassis B. show items C. show inventory D. show router **Correct Answer:** C **Section: Cisco IOS Software Operation Explanation Explanation/Reference:** QUESTION 41 Which Windows-based text editor is preferred for working with a simple text document, such as a Cisco configuration?

A. Microsoft Word

B. Microsoft Notepad

C. Microsoft Access



D. Microsoft Excel

Correct Answer: B

Section: Service-related Knowledge

Explanation

Explanation/Reference:

QUESTION 42 From a Windows command prompt, which command displays the local IP address of a computer?

A. ipconfiguration

B. ip configuration

C. ipconfig

D. ip config

Correct Answer: C

Section: Service-related Knowledge

Explanation

Explanation/Reference:

QUESTION 43 What is the Windows-based program that executes the ping command to test network connectivity?

A. cmd

B. Find

C. Start

D. ipconfig

Correct Answer: A

Section: Service-related Knowledge

Explanation

Explanation/Reference:

QUESTION 44

Which type of port on a laptop is used to connect to an Ethernet port on a Cisco switch?

A. DVI

B. RJ-11

C. DB-9

D. RJ-45

Correct Answer: D

Section: Service-related Knowledge

Explanation

Explanation/Reference:

QUESTION 45 Which type of Cisco console cable is used to connect a laptop to the console port on a Cisco router?

A. straight-through

B. fiber





C. crossover

D. rollover

Correct Answer: D

Section: Service-related Knowledge

Explanation

Explanation/Reference:

QUESTION 46 An Ethernet interface is up and the line protocol is down. What are two possible causes? (Choose two.)

A. There is a speed or duplex mismatch with the remote device.

B. There is a Layer 2 mismatch in the encapsulation type.

- C. The Ethernet interface has been manually disabled.
- D. Keepalives are not being received by the local device.
- E. The Ethernet cable might not be attached properly.

Correct Answer: AB

Section: Service-related Knowledge

Explanation

Explanation/Reference:

QUESTION 47 From the enable mode, which command loads the configuration during the password recovery process on a Cisco router? CEplus

A. load_helper

B. configure terminal

C. copy running-config startup-config

D. copy startup-config running-config

Correct Answer: D

Section: Service-related Knowledge

Explanation

Explanation/Reference:

QUESTION 48 Which command initiates the copying of a Cisco IOS image to a

Cisco device?

A. copy tftp nvram

B. copy tftp flash

C. copy flash tftp

D. copy xmodem flash

Correct Answer: B

Section: Service-related Knowledge

Explanation

Explanation/Reference:

QUESTION 49

TFTP is a simple protocol for transferring files, such as a Cisco IOS or configuration file, from one device to another. Which device can be configured as a TFTP server?





A. Cisco Content Engine

B. modem

C. Cisco router

D. CSU/DSU

Correct Answer: C

Section: Service-related Knowledge

Explanation

Explanation/Reference:

QUESTION 50 What is the primary method for recovering or upgrading a Cisco network device system image?

A. USB storage

B. FTP

C. the **tftpdnld** command

D. the **xmodem** command

Correct Answer: C

Section: Service-related Knowledge

Explanation

Explanation/Reference:

QUESTION 51 Which two commands are valid for copying a saved configuration to RAM? (Choose two.)

A. copy startup-config running-config

B. copy running-config startup-config

C. copy tftp running-config

D. copy running-config tftp

E. copy tftp startup-config

Correct Answer: AC

Section: Service-related Knowledge

Explanation

Explanation/Reference:

QUESTION 52 What are two purposes of a USB thumb drive? (Choose two.)

A. to save the system log

B. to copy configuration files to and from a PC

C. to save router hardware information

D. to copy IOS images to and from a PC

E. to increase system memory size

Correct Answer: BD

Section: Service-related Knowledge

Explanation





QUESTION 53 Which method is the fastest way to recover a software version that supports a USB flash port on a Cisco device?

A. **tftp** command

B. **xmodem transfer** command

C. copy command with USB memory

D. copy tftp flash: command

Correct Answer: C

Section: Service-related Knowledge

Explanation

Explanation/Reference:

QUESTION 54 Which command initiates the transfer of a Cisco IOS image over IP from ROMMON?

A. Xmodem

B. copy tftp: flash:C. copy flash: tftp:

D. tftpdnld

Correct Answer: D

Section: Service-related Knowledge

Explanation

Explanation/Reference:

QUESTION 55 What does Cisco use for Return Materials Authorization tracking of field-replaceable parts?

A. product number

B. serial number

C. RMA number

D. FRU number Correct Answer: C

Section: Service-related Knowledge

Explanation

Explanation/Reference:

QUESTION 56

Which set of steps best describes how to assign a static IP address to the Ethernet port on a computer?

- A. From the Network and Sharing Center, click Internet Protocol (TCP/IP), and follow the New Connection Wizard instructions.
- B. From the Network and Sharing Center, click Change adapter, then double-click a local area connection. Select Internet Protocol (TCP/IP) > Properties > Use the Following Address, and then configure the IP information.
- C. Click **Start**. Enter **cmd** and click **OK**. Enter the IP address **XXX.XXX.XXX**.
- D. From the Network and Sharing Center, double-click Local Area Connection. Select Properties > iPass Protocol (IEEE 802.1x) > Properties > Static IP.

Correct Answer: B

Section: Service-related Knowledge

Explanation



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QUESTION 57

Which router port is used for dial-in access to the router for CLI management purposes and does not usually pass normal network traffic?

- A. Fast Ethernet
- B. channelized serial
- C. AUX
- D. Gigabit Ethernet

Correct Answer: C

Section: Service-related Knowledge

Explanation

Explanation/Reference:

QUESTION 58 ESD is the sudden and momentary electric current that flows between two objects at different electrical potentials, caused by direct contact or induced by an electrostatic field. Which three tools are used to avoid ESD? (Choose three.)

- A. negative static bag
- B. antistatic mat
- C. ESD wrist strap
- D. negative static mat
- E. antistatic bag
- F. latex gloves

Correct Answer: BCE

Section: Service-related Knowledge

Explanation

Explanation/Reference:

CEplus

QUESTION 59 Which type of port is used to connect a laptop to an Ethernet port on a Cisco router?

- A. rollover
- B. fiber
- C. straight-through
- D. crossover

Correct Answer: C

Section: Service-related Knowledge

Explanation

Explanation/Reference:

QUESTION 60 Which Xmodem option is used to enhance error checking of an image that is copied to flash memory?

- А. -е
- B. -r
- C. -c
- D. -x

Correct Answer: C



Section: Service-related Knowledge

Explanation

