Practice Exam Questions

CISCO

100-490

Cisco Certified Technician

Routing & Switching (RSTECH)

EXAMKILLER

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Cisco

Exam 100-490

Cisco Certified Technician Routing & Switching (RSTECH)

Version: 3.0

[Total Questions: 60]

Topic break down

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Topic 1, General Networking Knowledge

Question No : 1 - (Topic 1)

What are two components of a WAN connection? (Choose two.)

A. CSU/DSU
B. router
C. bridge
D. hub
E. switch

Answer: A,B

Question No : 2 - (Topic 1)

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

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

Answer: C

Question No : 3 - (Topic 1)

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.

Answer: A,C

Question No : 4 - (Topic 1)

Which device is a DTE device?

A. CSU/DSU
B. router
C. cable modem
D. DSL modem

Answer: B

Question No : 5 - (Topic 1)

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

Answer: D

Question No : 6 - (Topic 1)

Which protocol does TFTP typically use for transport?

A. RSVP
B. TCP
C. HTTP
D. UDP

Answer: D

Question No : 7 - (Topic 1)

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

Answer: B,D

Question No : 8 - (Topic 1)

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

A. presentation
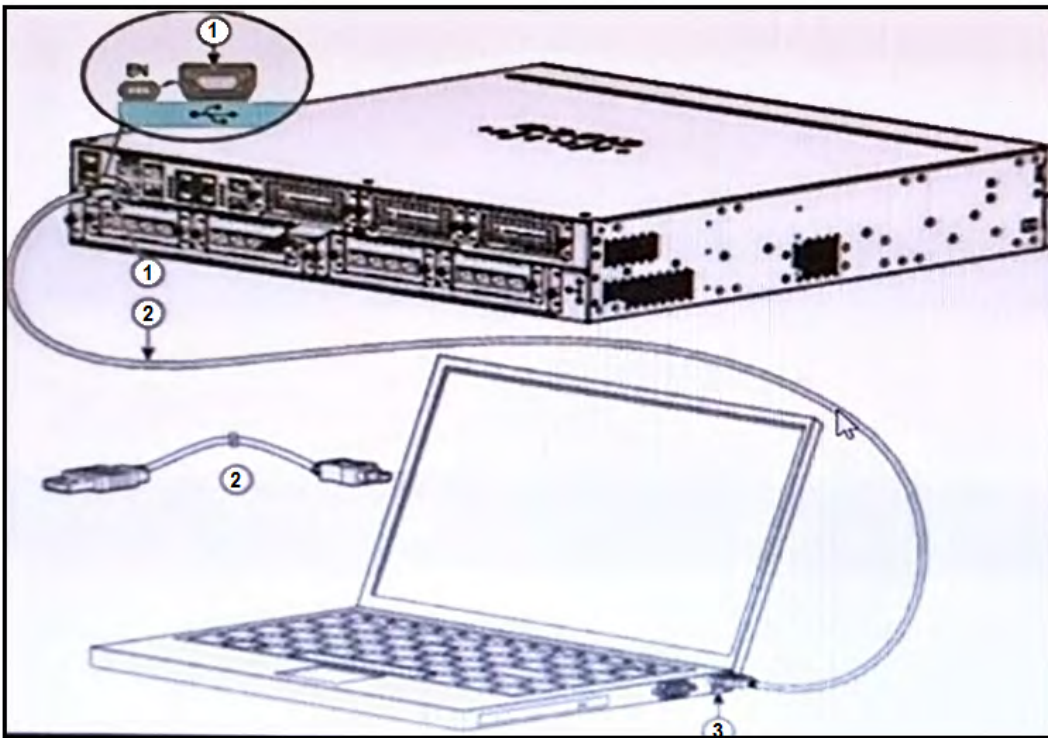**B.** data link
C. network
D. transport

Answer: B
Reference: https://itcertzone.wordpress.com/2011/01/24/the-seven-layers-of-the-osi-model/#:~:text=Layer%202%3A%20The%20Data%20Link,reliable%20delivery%20of%20the%20data.

Topic 2, Cisco Equipment and Related Hardware

Question No : 9 - (Topic 2)

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.

Answer: B,E
Reference:
https://www.cisco.com/c/en/us/td/docs/routers/access/2900/hardware/installation/guide/
Hardware_Installation_Guide/Install_Connect.html

Question No : 10 - (Topic 2)

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

Answer: B

Question No : 11 - (Topic 2)

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

A. RJ-9

B. RJ-45

C. DB-25

D. RJ-11

Answer: B

Question No : 12 - (Topic 2)

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

Answer: C,D

Reference:

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/
b_Cisco_Nexus_3400_NX-OS_Interfaces_Configuration_Guide_9z_chapter_010.html

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Question No : 13 - (Topic 2)

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

A. show hardware
B. show module
C. show environment
D. show diag

Answer: C

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

Question No : 14 - (Topic 2)

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

Answer: B,D

Question No : 15 - (Topic 2)

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

Answer: A,B

Question No : 16 - (Topic 2)

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.

Answer: A,E

Question No : 17 - (Topic 2)

Which type of transceiver module is used for 40 Gigabit Ethernet connectivity?

A. SFP+
B. GBIC
C. QSFP+
D. XFP

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

Question No : 18 - (Topic 2)

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