[Q25-Q40 Best Quality Cisco 100-490 Exam Questions Actualtests4sure Realistic Practice Exams [2024
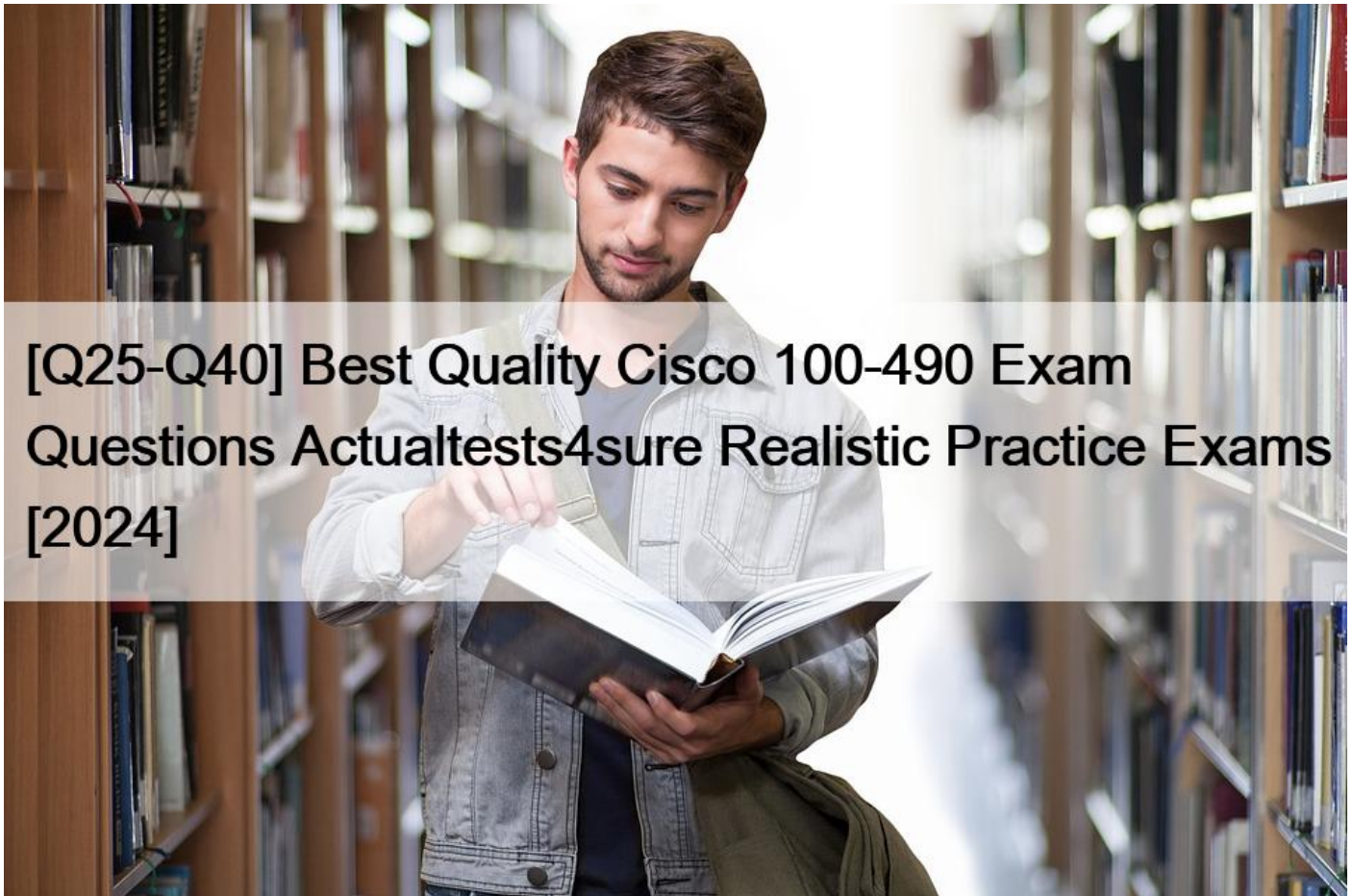

Best Quality Cisco 100-490 Exam Questions Actualtests4sure Realistic Practice Exams [2024]
Critical Information To Supporting Cisco Routing and Switching Network Devices Pass the First Time

Career Opportunities

After taking and passing the Cisco 100-490 RSTECH exam, you will get the Cisco Certified Technician Routing and Switching certification, which means you can work as a field engineer. As for their duties, field engineers help in installing, replacing, and providing the maintenance of mechanisms of a company. This role is highly-specialized and the Cisco certification is an indication of your in-depth knowledge of their technology services and products. Also, it is an in-demand job and field engineers typically have to work with other members of a team. Particularly, field engineers are needed in a lot of industries that have any electronic equipment, products, or systems that must conform to certain standards and specifications. As of now, PayScale puts the average base salary for such specialists being $64,301 yearly.

NO.25 Which two statements about a SmartJack are true? (Choose two.)

* It provides signal conversion.
* It acts as a concentration point for dial-in and dial-out connections.
* It operates at Layer 2 of the OSI model.

* It provides channel testing.
* It regenerates the signal to compensate for signal degradation from line transmission.

NO.26 From the enable mode, which command loads the configuration during the password recovery process on a Cisco router?
* load_helper
* configure terminal
* copy running-config startup-config
* copy startup-config running-config

The copy startup-config running-config command is used during the password recovery process on a Cisco router to load the saved configuration into the device’s active running configuration. Here’s why this is the correct choice:

Password Recovery Context: Password recovery often involves booting into ROMmon mode and changing the configuration register to bypass the normal boot process. This leaves the device with a blank running configuration.

Restoring Configuration: The copy startup-config running-config command copies the stored configuration (startup-config) from NVRAM into the running-config, which is used by the router for its operations.

Why other options are incorrect:

load_helper: While the load_helper command sometimes appears in password recovery procedures, it’s typically used for older models and may not be necessary for all Cisco routers.

configure terminal: This command simply enters global configuration mode. It doesn’t directly load a configuration.

copy running-config startup-config: This command saves the active running configuration into NVRAM as the startup-config. It’s the reverse of what you need for password recovery.

NO.27 Which type of memory stores the configuration of a router or switch by default?
* RAM
* ROM
* NVRAM
* flash

NO.28 Which two Cisco Nexus 3400 Series switches support 400-Gbps Ethernet ports? (Choose two.)
* Cisco Nexus 34180YC
* Cisco Nexus 34200YC-SM
* Cisco Nexus 3432D-S
* Cisco Nexus 3408-S
* Cisco Nexus 3464C

The Cisco Nexus 3432D-S and Cisco Nexus 3408-S are part of the Cisco Nexus 3400 Series switches that support 400-Gbps Ethernet ports. The Cisco Nexus 3432D-S is designed with 32 ports of 400G, providing high-density and high-throughput capabilities1. The Cisco Nexus 3408-S offers flexibility with 100G or 400G Line-Card Expansion Modules (LEMs), allowing for configurations with 32 ports of 400G2. These switches are engineered for data centers requiring high performance, low latency, and power efficiency, with the Cisco Nexus 3432D-S offering industry-leading performance-per-watt power efficiency at low latency1.

NO.29 Which two pairs of LAN Ethernet devices use an RJ-45 straight-through cable? (Choose two.)
* switch-to-switch
* switch-to-router
* switch-to-hub
* router-to-router

* switch-to-server

NO.30 Which Windows-based text editor is preferred for working with a simple text document, such as a Cisco configuration?
* Microsoft Word
* Microsoft Notepad
* Microsoft Access
* Microsoft Excel

NO.31 What is the Windows-based program that executes the ping command to test network connectivity?
* cmd
* Find
* Start
* ipconfig

NO.32 Which type of Cisco console cable is used to connect a laptop to the console port on a Cisco router?
* straight-through
* fiber
* crossover
* rollover

NO.33 What is the line speed of a DS0 in North America?
* 16 kbps
* 32 kbps
* 64 kbps
* 128 kbps

NO.34 What is the correct IPv6 address notation?
* 2001:0DB8::/128
* 2001:0DB8:0::
* 2001:0DB8::1:1:1:1:1
* 2001:0DB8:130F:0000:0000:7000:0000:140B
Section: General Networking Knowledge

NO.35 Which two features are associated with single-mode fiber-optic cable? (Choose two.)
* consists of a single strand of glass fiber
* has higher attenuation that multimode fiber
* carries a higher bandwidth that multimode fiber
* costs less than multimode fiber
* operates over less distance than multimode fiber
The features associated with single-mode fiber-optic cable include:

Consists of a single strand of glass fiber: Single-mode fiber uses a single core (strand) of glass fiber to transmit light signals. This core is thinner than that of multimode fiber, allowing for greater transmission distances.

Carries a higher bandwidth than multimode fiber: Single-mode fiber can carry higher data rates over longer distances compared to multimode fiber. It is commonly used in long-haul communication links and high-speed networks.

Reference:

Single-mode vs. Multimode Fiber

Fiber Optic Cable Types

NO.36 Which device is a DTE device?

* CSU/DSU
* router
* cable modem
* DSL modem

Section: General Networking Knowledge

NO.37 Which command shows the status of power supplies and sensor temperatures?

* show hardware
* show module
* show environment
* show diag

The show environment command in Cisco devices is used to display the status of the system's environment, including power supplies and sensor temperatures. This command provides a comprehensive overview of the environmental conditions affecting the device, such as temperature readings and power supply status.

Option A, show hardware, is not specific to power supplies and sensor temperatures. Option B, show module, displays information about the network modules installed in the device but not the environmental conditions. Option D, show diag, is used for diagnostic purposes and does not specifically provide the status of power supplies and sensor temperatures.

Therefore, the correct answer is C, show environment, which is the command that specifically shows the status of power supplies and sensor temperatures in Cisco devices12.

Reference:

Cisco Community discussions on power supply details1.

Cisco documentation on Environmental Monitoring and Power Management2.

NO.38 Which device is able to be configured as a TFTP server?

* CSU/DSU
* modem
* Cisco router
* Cisco Content Engine

A Cisco router can be configured to act as a TFTP (Trivial File Transfer Protocol) server. TFTP is a simple protocol used to transfer files without the need for authentication. On a Cisco router, the tftp-server command is used to designate the router as a TFTP server, allowing it to manage file transfers to and from connected devices. This is particularly useful for tasks such as updating the router's firmware or backing up configuration files. Neither CSU/DSU, modem, nor Cisco Content Engine are typically used as TFTP servers. Reference := The ability to configure a Cisco router as a TFTP server is documented in Cisco's support forums and knowledge base articles

NO.39 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.)

* negative static bag
* antistatic mat
* ESD wrist strap
* negative static mat

* antistatic bag
* latex gloves

Electrostatic Discharge (ESD) poses a significant risk to delicate electronic components. Here’s why the correct answers are essential tools for ESD protection:

Antistatic Mat: Provides a grounded surface to work on, dissipating static buildup from your body and the components you’re handling.

ESD Wrist Strap: When connected to a grounding point (often on the antistatic mat), this strap creates an electrical path to safely discharge static electricity from your body.

Antistatic Bag: These special bags are designed to shield sensitive components from static charge, crucial for storing and transporting electronic parts.

Why other options are incorrect:

Negative static bag, negative static mat: These terms don’t exist in standard ESD protection practices. The focus is on creating a grounded environment to neutralize static charges.

Latex gloves: While they offer insulation, they can actually generate static electricity, increasing the risk of ESD damage.

NO.40 Which two features are associated with single-mode fiber-optic cable? (Choose two.)
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Section: Cisco Equipment and Related Hardware

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