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QUESTION 276 What are three primary components in IS-IS fast convergence? (Choose three.) A. event propagation B. LSP flooding C. fast hellos D. matching MTUs E. updating RIB and FIB F. SPF calculation
Answer: AEF

QUESTION 277 Which option is an advantage of using PIM sparse mode instead of PIM dense mode? A. No RP is required. B. There is reduced congestion in the network. C. IGMP is not required. D. It floods all multicast traffic throughout the network.
Answer: B

QUESTION 278 What are two benefits of using 6to4 as an IPv6 transition method? (Choose two.) A. 6to4 tunnels allow isolated IPv6 domains to be remotely connected over IPv4 networks. B. Manual configuration (scalability) is easier. C. Point-to-multipoint automatic tunneling (automatic 6to4) is available. D. An infinite number of address spaces are allocated to an IPv6 subnet. E. Globally unique IPv4 addresses are not required.
Answer: AC

QUESTION 279 In which multicast configuration is MSDP most useful? A. interdomain B. intradomain C. data center D. campus
Answer: A

QUESTION 280 A network engineer is building a LAN design that includes Cisco NAC. What two characteristics of an out-of-band NAC deployment are important to consider when evaluating it for the design? (Choose two.) A. supported by a limited number of switch models B. never in-line with user traffic C. aggregate client traffic is constrained to NAC server port speed D. recommended if sharing ports between IP phones and PCs E. supports real IP gateway (routed mode)
Answer: AD
Explanation: <https://www.safaribooksonline.com/library/view/foundation-learning-guide/9780132652933/ch08.html>
"Out-of-band traffic flow is supported with the Cisco NAS connected to most common Cisco switches with recent software releases." https://www.cisco.com/c/en/us/td/docs/security/nac/appliance/configuration_guide/47/cas/47cas-book/s_deploy.html "OOB Virtual Gateway-Recommended configuration if sharing ports between IP phones and PCs."

QUESTION 281 Which protocol should be configured if a network administrator has the following requirements? - Multiple physical gateways participating simultaneously in packet forwarding. - All hosts in the VLAN configured with the same default gateway address. A. HSRP B. VRRP C. VTP D. GLBP
Answer: D

QUESTION 282 What is an advantage of using the Virtual Device Contexts feature in a data center environment? A. The same VLAN cannot be configured in separate Virtual Device Contexts. B. This feature provides fault domain separation. C. Supervisor modules are shared between Virtual Device Contexts. D. Fabric modules are shared between Virtual Device Contexts.
Answer: B

QUESTION 283 Which two technologies provide web and URL filtering and mitigate zero-day malware? (Choose two.) A. Cisco CWSB. Cisco WSAC. Cisco GETVPND. Cisco ESAE. NAT/PAT
Answer: AB
Explanation: Cisco CWS: Cisco Cloud Web Security
https://www.cisco.com/c/en/us/products/collateral/security/cloud-web-security/data_sheet_c78-729637.html Cisco WSA: Cisco Web Security Appliance
<https://www.cisco.com/c/en/us/products/collateral/security/content-security-management-appliance/datasheetc78-729630.html> Cisco ESA: Email Security Appliance

QUESTION 284 Which feature supports multiple routing tables with overlapping networks on a single device? A. VRF B. Metro Ethernet C. RSTPD. VSS
Answer: A

QUESTION 285 A VPN solution requires bulk traffic encryption, low OpEx to add new sites, and the ability to accommodate dynamic tunnels between branch locations. What VPN solution can fulfill these requirements? A. GETVPNB. SSL VPNC. Easy VPND. DMVPN
Answer: D

QUESTION 286 Which mechanism is enabled by default in the OTV technology to conserve bandwidth? A. Automatic unicast flooding is suppressed over the OTV link. B. BPDUs are allowed to traverse the OTV link. C. Control plane traffic is prevented from traversing the OTV link. D. Data plane traffic is prevented from traversing the OTV link.
Answer: A

QUESTION 287 What are two of Cisco's best practices at the access layer to ensure rapid link transitions and VLAN consistency? (Choose two.) A. Deploy RPVSTB. Deploy MSTPC. Utilize VTP in server/client mode D. Utilize VTP in transparent mode E. VLANs span entire network F. Portfast applied on distribution uplinks
Answer: AD

QUESTION 288 A campus network utilizes EIGRP to connect to several remote branch offices. Which configuration should be established on all branch routers to improve routing scalability and performance? A. Configure authentication between the campus and branch offices. B. Enable stub routing on all branch routers. C. Adjust EIGRP k-values to utilize delay. D. Utilize offset lists to direct traffic more efficiently.
Answer: B

QUESTION 289 Which action can be taken on a multiaccess segment with OSPF speakers to reduce the performance impact during widespread convergence events? A. Separate the network into multiple areas for each new multiaccess segment. B. Enable LSA throttling in the core to slow link state advertisement updates during times of network instability. C. Ensure that the elected DR or BDR router can support high-volume convergence events. D. Verify that fewer than 50 OSPF speakers are on the segment.
Answer: B

Explanation: "It is worth noting that three most important timers to tune network for sub-second convergence are the failure detection delay, initial LSA generation delay and initial SPF delay. All other timers, such as hold and maximum time serve the purpose of stabilizing network, and affect convergence in "worst-case" unstable network scenarios." More info on LSA throttling:

https://www.cisco.com/c/en/us/td/docs/ios/12_0s/feature/guide/fsolsath.html "Benefits of OSPF LSA Throttling Prior to the OSPF LSA Throttling feature, LSA generation was rate-limited for 5 seconds. That meant that changes in an LSA could not be propagated in milliseconds, so the OSPF network could not achieve millisecond convergence. The OSPF LSA Throttling feature is enabled by default and allows faster OSPF convergence (in milliseconds). This feature can be customized. One command controls the generation (sending) of LSAs and another command controls the receiving interval. This feature also provides a dynamic mechanism to slow down the frequency of LSA updates in OSPF during times of network instability." QUESTION 290

Which two WAN technologies support IEEE 802.1Q, site-to-site connectivity, and point-to-point connectivity between two offices? (Choose two.) A.

Ethernet over MPLS B. VPLS C. Layer 3 MPLS D. DSLE E. cable Answer: AB QUESTION 291 Which command can you enter to inject BGP routes into an IGP? A. redistribute bgp B. redistribute static C. redistribute static subnet D.

default-information originate Answer: A QUESTION 292 Which two types of authentication mechanisms can be used by VRRP for security? (Choose two.) A. SHA-1 B. MD5 C. SHA-256 D. plaintext authentication E. PEAP Answer: BD QUESTION 293 A

network engineer is designing a network that must incorporate seamless failover when a link failure occurs between the core and distribution layer. What two technologies will allow this? (Choose two.) A. ECMP B. RSTP C. MEC D. GLBP E. HSRP

Answer: AC QUESTION 294 What are the three configuration requirements for implementing Modular QoS on a router? (Choose three.) A. CoS B. class map C. precedence D. service policy E. priority F. policy map Answer: BDF QUESTION 295 Which

QoS mechanism uses RSVP? A. IntServ B. DiffServ C. CoS D. ToS Answer: A QUESTION 296 Which two physical components can enable high availability on a Cisco 6500 device? (Choose two.) A. dual supervisor modules B. bundled Ethernet Interconnects C. line modules with DFCs D. redundant power supplies E. VSS interlink cables Answer: AD QUESTION 297

When an enterprise network is designed, which protocol provides redundancy for edge devices in the event of a first-hop failure? A. ICMP B. HSRP C. STP D. HTTP Answer: B QUESTION 298 Which QoS mechanism uses PHBs? A. DiffServ B. IntServ C. CoS D. ToS Answer: A QUESTION 299 Summary address blocks can be used to support which network application? A. QoS B. IPsec tunneling C. Cisco TrustSec D. NATE E. DiffServ Answer: D Explanation:

<http://www.ciscopress.com/articles/article.asp?p=1763921> Summary address blocks can be used to support several network applications: Separate VLANs for voice and data, and even role-based addressing Bit splitting for route summarization Addressing for virtual private network (VPN) clients Network Address Translation (NAT) QUESTION 300 What two features are inherent advantages of MPLS VPN services? (Choose two.) A. service providers can provide additional services B. virtual private networks segment traffic and ensure privacy C. easier to troubleshoot than Layer 2 WAN technologies D. faster data transfer speeds at lower costs E. functions without Cisco Express Forwarding Answer: AB About 90% questions are from this 300-320

dump. One thing you need to pay attention is the questions are rephrased in the real 300-320 exam. And btw selections are jumbled so you must remember the answer itself not the letter of choice. More 300-320 new questions (with images) on Google Drive:

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