Cisco

Exam Questions 642-887

SPCORE Implementing Cisco Service Provider Next-Generation Core Network Services (SPCORE)
NEW QUESTION 1

DRAG DROP

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Applies the QoS policy to interface—service policy
Defines the PHB qos action for each of the different traffic classes—policy map Defines the making parameters for classifying packets into service classes—class-map
Applies the QoS policy to interface—service policy
Defines the PHB qos action for each of the different traffic classes—policy map Defines the making parameters for classifying packets into service classes—class-map

NEW QUESTION 2

The network architecture team is proposing to enable Cisco MPLS TE over the entire service provider core network. Which two options are benefits of Cisco MPLS TE that affect their decision? (Choose two.)

A. Cisco MPLS TE optimizes network resources.
B. Cisco MPLS TE data flows independent from the underlying IGP.
C. Cisco MPLS TE increases the data forwarding rate.
D. Cisco MPLS TE tunneling does not require maintenance.
E. Cisco MPLS TE offers network resource reservation, which removes any need for QoS MQC policies.

Answer: AB

NEW QUESTION 3

When configuring LLQ (strict priority queue) on a traffic class using the Cisco IOS XR priority command on a Cisco ASR9K router, which additional QoS command is required for this traffic class?

A. shape
B. police
C. random-detect
D. bandwidth

Answer: B

Explanation:
The Low Latency Queueing feature brings strict priority queueing to Class-Based Weighted Fair Queueing (CBWFQ).

NEW QUESTION 4

What is a crucial LDP default operating behavior?

A. LDP uses the solicited mode by default
B. An LDP label request is sent to the FIB next hop LS
C. When the egress router receives the request, it returns message with all the label-mapping information for the LSP is generated.
D. LDP establishes a TCP session between the PE routers, thus providing label mapping for the LSP
E. LDP uses downstream unsolicited mode by default
F. An LSR advertises label mappings to peers without being asked
G. LDP uses UDP-confirmed messages to establish sessions between PE ingress and egress router
H. The UDP messages encode the label information for each LSP and sub-LSP link

Answer: C
NEW QUESTION 5
With unmanaged CE routers, at which point in the service provider network is the QoS trust boundary, and what is required at the trust boundary?

A. between the CE and PE router and mapping of the customer traffic classes into the service provider traffic classes at the PE router ingress
B. between the CE and PE router and trusting the QoS markings from the CE router and applying the required QoS mechanisms based on the customer QoS markings
C. between the PE and the P router and mapping of the customer traffic classes into the service provider traffic classes at the P router ingress
D. between the PE and P router and trusting the QoS markings from the CE router and applying the required QoS mechanisms based on the customer QoS markings
E. between the customer network and the CE router ingress and applying the required egress QoS policy on the CE router

Answer: A

NEW QUESTION 6
An engineer is having a problem getting an operational 10 Gigabit link on a Cisco ASR 9000 series router. The service provider instructs the engineer to use an LR optic. The engineer must access the router remotely. Which command should the engineer issue to determine that the correct optic has been installed?

A. show controllers
B. show module optics
C. show ip interface
D. show optics

Answer: A

NEW QUESTION 7
Refer to the Cisco IOS XR policy-map configuration exhibit.

```
policy-map test
  !
  class one
  priority level 1
  !
  class two
  priority level 2
  !
  class three
  bandwidth percent 60
  !
  interface GigabitEthernet0/0/0/2
  service-policy output test
  !
```

What is wrong with the policy-map configuration?

A. missing the priority percent command under class one and class two
B. missing the police command under class one and class two
C. missing the police command under class three
D. missing the priority bandwidth command under class one and class two
E. missing the bandwidth command under class one and class two

Answer: B

Explanation:
Hierarchical policing is also supported. In such a configuration, both parent and child policies have class-maps containing policing statements, as in the following example:

```
! policy-map child class gold
police rate percent 50 conform-action set precedence immediate exceed-action drop
!
! policy-map parent class match_all
police rate 10000 kbps burst 15000 exceed-action drop service-policy child
```

NEW QUESTION 8
Which option is a Cisco-recommended congestion management or queuing method for real-time traffic for voice and video?

A. CB-WFQ
B. PQ
C. WFQ
D. LLQ

Answer: D

NEW QUESTION 9
Implementing IPoDWDM interfaces on Cisco CRS routers eliminates the need for which network component?
A. ROADM  
B. external transponders  
C. electrical-optical-electrical converters  
D. electrical cross-connect

**Answer:** B

**Explanation:**
IP over DWDM (IPoDWDM) is a technology used in telecommunications networks to integrate IP Routers and Switches in the OTN (Optical Transport Network).

**NEW QUESTION 10**
Refer to the exhibit.

![MPLS_Router_A](image)

You are about to implement security features, including this configuration, within the MPLS network of a large MPLS service provider. How does the router distribute the labels to its neighbors?

A. All network 10.100.0.0/24 labels are sent to all TDP neighbors  
B. All network 10.100.0.0/16 labels are sent to all LDP neighbors  
C. All network 10.100.0.0/24 labels are sent to all LDP neighbors  
D. All network 10.100.0.0/24 labels are sent to all LDP and TDP neighbors

**Answer:** C

**NEW QUESTION 11**
A recent analysis of a service provider network infrastructure revealed the necessity to reinforce bandwidth control over all the 5 Mbps residential customer contracts. Which option is a viable solution to rate limit customer’s bandwidth both upstream and downstream?

A. class-based policing  
B. committed access rate on a per interface basis  
C. reserving 5 Mbps on Cisco MPLS TE tunnels that connect customers  
D. setting customer Ethernet links to 10 Mbps half-duplex

**Answer:** C

**NEW QUESTION 12**
A company asks an engineer to provide an explanation for implementing MPLS DiffServ-TE services. Which option is a DiffServ-TE fundamental concept that should be highlighted?

A. expedited forwarding  
B. assured forwarding  
C. class of service  
D. class types  
E. fast reroute

**Answer:** D

**NEW QUESTION 13**
On the Cisco ASR9K router, when using the bandwidth command to specify the minimum guaranteed bandwidth to be allocated for a specific class of traffic, what will be used as the queuing algorithm?

A. custom queuing  
B. C8WFQ  
C. WFQ
NEW QUESTION 14
Referring to the traceroute output exhibit that is shown,

```
Type escape sequence to abort.
1  37.37.37.1 [MPLS: Label 66 Exp 0] 40 msec 24 msec 28 msec
2  78.78.78.2 [MPLS: Label 99 Exp 0] 28 msec 32 msec 28 msec
3  101.101.101.3 [MPLS: Label 66 Exp 0] 36 msec 24 msec 24 msec
4  110.110.110.1 26 msec 28 msec 28 msec
5  101.101.101.2 [MPLS: Label 66 Exp 0] 28 msec 26 msec 24 msec
6  135.135.135.2 26 msec 28 msec 28 msec
```

which statement is correct?

A. There is no problem with the end-to-end LSP as indicated by the successful trace.
B. Normal PHP operation is performed by the hop 4 router.
C. The end-to-end LSP is broken at hop 4.
D. At each hop, each LSR is able to perform label swapping.

Answer: C

NEW QUESTION 15
Cisco MPLS TE path setup can be affected by which three tunnel attributes? (Choose three.)

A. bandwidth
B. delay
C. MTU
D. priority
E. affinity

Answer: ADE

NEW QUESTION 16
Refer to the exhibit.

```
interface Tunnel1001
tunnel mode mpls traffic-eng
ip address unnumbered
tunnel destination 10.0.0.1
tunnel mpls traffic-eng path-option 1 dynamic
```

Which two commands can be used to assign traffic onto MPLS TE Tunnel1001? (Choose two.)

A. ip route 0.0.0.0 0.0.0.0 Tunnel1001
B. tunnel mpls traffic-eng autroute announce
C. tunnel mpls traffic-eng bandwidth
D. tunnel mpls traffic-eng priority 1 1
E. ip route 0.0.0.0 0.0.0.0 10.0.0.1

Answer: AB

NEW QUESTION 17
A network engineer must analyze RSVP-TE signaling on a syslog server. Which three RSVP messages are valid? (Choose three.)

A. RSVP PATH
B. RSVP RESERVATION
C. RSVP ESTABLISHED
D. RSVP PATH TEAR
E. RSVP KILL
F. RSVP INIT

Answer: ABD

NEW QUESTION 18
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What are the four fields inside the MPLS shim header? (Choose four.)

A. EXP  
B. TTL  
C. Version  
D. S  
E. Length  
F. Label  
G. Type  
H. FCS

**Answer:** ABDF

**NEW QUESTION 19**

On a Cisco IOS XR router, which mechanism protects the router resources by filtering and policing the packets flows that are destined to the router that is based on defined flow-type rates?

A. LLQ  
B. LPTS  
C. Committed Access Rate  
D. Control Plane Policing  
E. Management Plane Protection  
F. NetFlow  
G. ACL

**Answer:** B

**Explanation:**
Local Packet Transport Services (LPTS) maintains tables describing all packet flows destined for the secure domain router (SDR), making sure that packets are delivered to their intended destinations.
The Low Latency Queueing feature brings strict priority queueing to Class-Based Weighted Fair Queueing (CBWFQ).

**NEW QUESTION 20**

Which option describes the function of an IPv6 flow label?

A. serves as a management flow to easily monitor any TCP/IP session running over IPv6  
B. serves as a 20-bit checksum per flow for authentication services built into IPv6  
C. enables efficient IPv6 flow classification based only on IPv6 main header fields  
D. used by MPLS when the service provider core network is fully IPv6 enabled

**Answer:** C

**NEW QUESTION 21**

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