



Vendor: Cisco

Exam Code: 642-887

Exam Name: Implementing Cisco Service Provider Next-Generation Core Network Services (SPCORE)

Version: DEMO

QUESTION 1

Which two traffic types are recognized by NBAR default configuration settings? (Choose two.)

- A. HTTP URL
- B. Sun RPC
- C. TCP
- D. UDP
- E. HTTPS URL

Answer: AB

QUESTION 2

Which statement describes the QoS behavior between P and PE routers of an MPLS provider network for an L3VPN service?

- A. The PE function honors DSCP markings set by the CE.
- B. The customer and provider must agree on DSCP classification and traffic priorities.
- C. Classification of customer traffic is handled by the P router.
- D. The PE function cannot map DSCP markings to MPLS EXP bits.

Answer: B

QUESTION 3

Which method is used to mark traffic matched by class-map MY_CLASS as Expedited Forwarding?

- A. set ip dscp cs7
- B. set dscp cs7
- C. set dscp 46
- D. set dscp 45

Answer: C

QUESTION 4

Which method maps MPLS EXP bit 5 to COS 5 on Cisco IOS XE?

- A.

```
configure terminal
class-map match exp
match mpls experimental topmost 5
exit
policy-map EXP2Cos
class exp
set cos 5
exit
class class-default
random-detect
interface fastethernet 0/0
service-policy output EXP2Cos
```
- B.

```
configure terminal
class-map match exp
match mpls experimental topmost 5
```

- ```
exit
policy-map EXP2Cos
class exp
set cos 5
exit
class class-default
random-detect
interface fastethernet 0/0
service-policy input EXP2Cos
```
- C. configure terminal
- ```
class-map match exp
match mpls cos 5
exit
policy-map EXP2Cos
class exp
set mpls experimental topmost 5
exit
class class-default
random-detect
interface fastethernet 0/0
service-policy output EXP2Cos
```
- D. configure terminal
- ```
class-map match exp
match mpls cos 5
exit
policy-map EXP2Cos
class exp
set mpls experimental topmost 5
exit
class class-default
random-detect
interface fastethernet 0/0
service-policy output EXP2Cos
exit
commit
```
- E. configure terminal
- ```
ip access-list 101 permit ip any any mpls experimental 5
class-map match exp
match access-group 101
exit
policy-map EXP2Cos
class exp
set cos 5
exit
class class-default
random-detect
interface fastethernet 0/0
service-policy output EXP2Cos
exit
```

Answer: A

QUESTION 5

The Cisco IOS and IOS XE qos pre-classify command allows which kind of packet classification on IP packets that are encapsulated with GRE and IPsec?

- A. allows for packets to be classified based on the ToS byte values before packet encryption
- B. allows for packets to be classified based on the ToS byte values after packet encryption
- C. allows for packets to be classified based on the packet payload before packet encryption
- D. allows for packets to be classified based on the packet payload after packet encryption
- E. allows for packets to be classified based on the packet header parameters other than the ToS byte values after packet encryption

Answer: E

QUESTION 6

An engineer has been tasked to configure a guaranteed 2 Mbps of bandwidth for outgoing FTP traffic on interface FastEthernet 1/1/1 on Cisco IOS XR. Which method accomplishes this configuration?

- A.

```
configure terminal
class-map FTP_CLASS
match protocol ftp
exit
policy-map POLICY_1
class FTP_CLASS
bandwidth 2000
exit
exit
interface FastEthernet 1/1/1
service-policy output POLICY_1
end
commit
```
- B.

```
configure terminal
class-map FTP_CLASS
match protocol ftp
exit
policy-map POLICY_1
class FTP_CLASS
bandwidth 2000000
exit
exit
interface FastEthernet 1/1/1
service-policy input POLICY_1
end
commit
```
- C.

```
configure terminal
access-list 100 permit ip any any eq 21
policy-map POLICY_1
match ip access-list 100
bandwidth 2000
exit
exit
interface FastEthernet 1/1/1
service-policy output POLICY_1
end
commit
```
- D.

```
configure terminal
policy-map POLICY_1
```

```
class FTP_CLASS
match protocol ftp
bandwidth 2000000
exit
exit
interface FastEthernet 1/1/1
service-policy input POLICY_1
end
commit
```

Answer: A

QUESTION 7

An engineer has been tasked to configure a guaranteed 10 Mbps priority queue for traffic matched by class-map VOICE_CLASS on Cisco IOS XR. Which policy must be applied for outgoing traffic on interface FastEthernet 0/0/1?

- A.

```
configure
policy-map VOICE_POLICY
class VOICE_CLASS
police rate 10000
exceed-action drop
exit
priority level 1
exit
exit
interface FastEthernet 0/0/1
service-policy output VOICE_POLICY
commit
```
- B.

```
configure
policy-map VOICE_POLICY
class VOICE_CLASS
priority percent 10
exit
exit
interface FastEthernet 0/0/1
service-policy output VOICE_POLICY
commit
```
- C.

```
configure
policy-map VOICE_POLICY
class VOICE_CLASS
police rate 1000
exceed-action drop
exit
priority level 1
exit
exit
interface FastEthernet 0/0/1
service-policy output VOICE_POLICY
commit
```
- D.

```
configure
policy-map VOICE_POLICY
class VOICE_CLASS
police rate 10 Mbps
exceed-action shape
```

```
exit
priority level 1
exit
exit
interface FastEthernet 0/0/1
service-policy output VOICE_POLICY
commit
```

Answer: A

QUESTION 8

When implementing CBWFQ, where should Weighted Random Early Detection configuration be applied?

- A. route-map
- B. policy-map
- C. class-map
- D. service-policy

Answer: B

QUESTION 9

Which QoS technique can be used to protect customer traffic from being dropped by traffic rate limiting performed by the service provider?

- A. LLQ
- B. policing
- C. fair-queue
- D. shaping

Answer: D

QUESTION 10

Refer to the exhibit. Based on the raw format of an MPLS header captured by a traffic analyzer, what is the value of the MPLS EXP field?

0000	0011	1110	1000	0001	....	....	....
....	....	....	....	....	000.	....	....
....	....	....	....	....	...1	....	....
....	....	....	....	....	....	1111	1111

- A. 1
- B. 255
- C. 5
- D. 29

Answer: C

QUESTION 11

Which two characteristics describe the difference between MPLS QoS pipe and short-pipe models? (Choose two)

- A. Short-pipe mode does not need MPLS usage, but pipe mode does.
- B. In short-pipe mode, the egress LSR uses the tunneled PHB marking, but in pipe mode, the egress LSR uses the LSP PHB marking.
- C. Pipe mode does guarantee that the tunneled packet marking remains unchanged, but short-pipe does not.
- D. In short-pipe mode, the egress LSR uses the LSP PHB marking, but in pipe mode, the egress LSR uses the tunneled PHB marking.
- E. Short-pipe mode can be implemented on MPLS networks regardless of the MPLS PHP mechanism usage.

Answer: BE

QUESTION 12

How many labels does an MPLS packet have, with a bottom-of-stack label set to zero?

- A. The packet has no label.
- B. The packet has one label.
- C. The packet may have one or more labels.
- D. The packet has at least two labels.

Answer: D

QUESTION 13

Which four options are methods by which labels can be assigned in the label stack to an IP prefix? (Choose four.)

- A. LDP
- B. CEF
- C. BGP
- D. RSVP
- E. static
- F. IGP
- G. route recursion
- H. manual tagging

Answer: ACDG

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