

**Exam**            **300-615**

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**Title**            **Troubleshooting Cisco Data Center  
Infrastructure (300-615 DCIT) Exam**

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**Version**        **5.0**

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**Product  
Type**            **70 Q&A with explanations**

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Question 1:

Why would you partition FHRP in a Cisco OTV environment?

- A. to ensure redundancy**
- B. to optimize the traffic flow**
- C. to simplify the configuration**
- D. to have consistency in each site**

**Correct Answer: B**

Question 2:

You are a network engineer who is responsible for data center networking. Your junior colleague is wondering when to use static routing and when to use dynamic routing protocols. Which three statements correctly describe the differences between static and dynamic routing? (Choose three.)

- A. Dynamic routing protocols are easier to deploy on larger networks unlike static routing.**
- B. Static routes can detect changes in the routing topology and react faster than dynamic routing protocols.**
- C. Static routes do not change unless you reconfigure them.**
- D. Dynamic routing protocols use various metrics to calculate optimal routes.**
- E. Static routes require feature ip-routing on the Cisco Nexus 7000 Series Switch.**

**Correct Answer: A,C,D**

Question 3:

Which routing process is most error-prone when managing a many routes?

- A. IS-IS**
- B. BGP**
- C. static**
- D. OSPF**

**Correct Answer: C**

Question 4:

Which two functions are performed by a border spine that is acting as Layer 3 gateway for Cisco FabricPath network? (Choose two.)

- A. intra-VLAN switching based on switch ID**
- B. inter-VLAN routing**
- C. intra-VLAN switching based on MAC address**
- D. inter-VLAN switching based on switch ID**
- E. intra-VLAN routing**
- F. inter-VLAN switching based on MAC address**

**Correct Answer: A,B**

Question 5:

Which feature must be enabled before you can configure an SVI?

- A. feature interface-vlan**
- B. feature vlan**
- C. feature private-vlan**
- D. feature I3**

**Correct Answer: A**

Question 6:

You are managing security in your fabric and considering deploying fabric binding or port security. You want a network that is less tightly controlled, and want to prevent unauthorized switches from joining the fabric. Which option should you choose?

- A. fabric binding and port security**
- B. no fabric binding and no port security**
- C. port security only**
- D. fabric binding only**

**Correct Answer: D**

Question 7:

Your VXLAN configuration maps each VNID to a unique IP multicast group address. What happens when the number of VNIDs (VXLAN segments) surpasses the number of available IP multicast groups?

- A. You can map multiple VNIDs to the same IP multicast group.**
- B. You can map multiple VNIDs to the same IP multicast group, but then all affected VXLAN segments see BUM traffic from all other VXLAN segments.**
- C. You must deactivate some VNIDs in order to add new ones.**
- D. You cannot add new VNIDs, because VNID mapping to IP multicast group must be unique.**
- E. You must remap all VNIDs to a single IP multicast group.**

**Correct Answer: A**

Question 8:

Which command should you use to apply the commands in the port profile to the interface?

- A. switchport**
- B. no shutdown**
- C. state enabled**
- D. Commit**

**Correct Answer: C**

Question 9:

Which two commands should you use to display Cisco Fabric Services local switch WWN? (Choose two.)

- A. show cfs lock**
- B. show cfs application name name**
- C. show cfs regions**
- D. show cfs regions brief**
- E. show cfs peers**

**Correct Answer: C,E**

Question 10:

As a network support engineer, you are planning to upgrade one of the data center's switches using ISSU. As a part of the preparation process, you execute a couple of commands to verify ISSU configuration compatibility. One of the commands returns a warning:

1. No Active Topology change Found!
2. Criteria 1 PASSED !!
- 3.
4. No Ports with BA Enabled Found!
5. Criteria 2 PASSED!!
- 6.
7. List of all the Non-Edge Ports
- 8.
9. Port                    VLAN Role Sts Tree Type Instance
10. -----

- 11. Ethernet1/1            1 Desg FWD MST            1
- 12. Ethernet1/1            1 Desg FWD MST            2
- 13.
- 14. Criteria 3 FAILED !!
- 15.
- 16. ISSU Cannot Proceed! Change the above Config

What should you do to resolve this problem?

- A. MST is not supported. Use the rapid-PVST.**
- B. Disable bridge assurance on affected ports.**
- C. Remove Ethernet 1/1 port from the VPC peer link.**
- D. Remove the switch connected to the Ethernet 1/1 port.**

**Correct Answer: D**

Question 11:

As a network support engineer, you received a complaint about connectivity issues on aggregation switch after recent configuration changes. During the log inspection, you found the following lines:

- 1. 2017 NOV 14 08:42:22 N7K-A-Pod5 %ETHPORT-3-IF\_ERROR\_VLANS\_SUSPENDED:
- 2. VLAN/BDS 200-220 on Interface port-channel20 are being suspended (Reason: Vlan is not configured on remote vPC interface)

Which two statements are true? (Choose two.)

- A. VLAN range does not match on both vPC member ports.**
- B. Configuration change triggered type 1 failed consistency check on the interface level.**
- C. VLAN range was added on the vPC member ports but not on the vPC peer link.**
- D. Configuration change triggered type 1 failed consistency check on the global level.**
- E. Configuration change triggered type 2 failed consistency check on the interface level.**

**Correct Answer: A,E**

Question 12:

You are in the process of deploying Cisco FabricPath in your data center. You are concerned about the interoperability with the Classical Ethernet device and loop prevention mechanisms in Layer 2. Which three statements are true regarding how a Cisco FabricPath switch processes TCN BPDUs? (Choose three.)

- A. TCNs are propagated to Classical Ethernet ports in the default domain (domain 0).**
- B. A FabricPath switch propagates the TCN to Classical Ethernet ports that are part of the same STP domain.**
- C. Each FabricPath switch flushes all remote MAC addresses learned from switches that are in the same STP domain as the domain that is originating the TCN.**
- D. A FabricPath switch receives the BPDU on a Classical Ethernet port and propagates it to all FabricPath switches in the network using IS-IS.**
- E. A FabricPath switch receives the BPDU on a Classical Ethernet port and propagates it to all FabricPath switches in the network using MP-BGP.**

**Correct Answer: B,C,D**

Question 13:

In the context of NPV fabric, which three statements describe NPIV proxy module operation beyond FLOGI snooping? (Choose three.)

- A. It pins the server interface traffic to external interface.**
- B. It translates FLOGI requests from HBA to FDISC requests towards NPIV switch.**
- C. It generates proxy LOGOs to handle events and retries failed login requests from one external interface to a different one.**
- D. It pins the server interface traffic to internal interface.**

**E. It translates FLOGI requests from HBA to FDISC requests towards NPV switch.**

**Correct Answer: A,B,C**

Question 14:

Which three statements are true regarding the SPAN feature on the Cisco Nexus Series switches? (Choose three.)

- A. You can use the in-band interface to the control plane CPU as the SPAN traffic source.**
- B. The amount of replicated traffic depends on the available CPU of the supervisor card.**
- C. Maximum of 4 SPAN sessions can run simultaneously.**
- D. You can use port channels as the SPAN traffic source.**
- E. You can use the Layer 3 subinterface as the SPAN traffic source.**
- F. You can configure up to 48 SPAN sessions to monitor the traffic.**

**Correct Answer: A,D,F**

Question 15:

What is a prerequisite for Fibre Channel over Ethernet with regard to the characteristic of the underlying network transport?

- A. redundant**
- B. lossless**
- C. low jitter**
- D. low latency**

**Correct Answer: B**

Question 16:

Which three elements are needed to create an inband profile? (Choose three.)

- A. VSAN**
- B. VLAN**
- C. VLAN group**
- D. IP pool**
- E. MAC pool**
- F. LAN pin group**

**Correct Answer: B,C,D**

Question 17:

Which three statements are true about the SNMP implementation on the Cisco NX-OS Software? (Choose three.)

- A. Cisco Nexus 7000 Series Switches support one instance of SNMP per VDC.**
- B. Cisco Nexus 5000 Series Switches only support read-only for MIBs on all versions of SNMP.**
- C. Cisco Nexus 5000 Series Switches only support authNoPriv security level.**
- D. Cisco Nexus 7000 Series Switches support read-write for certain MIBs in version 3 and read-only for all MIBs in all versions.**
- E. SNMP over IPv6 on Cisco Nexus 7000 Series Switches works only in the default VDC.**

**Correct Answer: A,B,D**

Question 18:

Your colleague is preparing a firmware upgrade on one of the servers but is unable to connect to the Cisco IMC. You suspect that the networking configuration on the Cisco IMC is not correct. Choose two steps should you take to troubleshoot this issue? (Choose two.)

- A. Connect directly to the KVM port on the server.**
- B. Press F8 during bootup to enter the Cisco IMC configuration menu.**
- C. Use the Cisco IMC web interface to connect to the Cisco IMC configuration menu.**
- D. Connect the management serial port on the server using the 9600,8,N,1 terminal setting.**