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**NORTH AMERICAN  
UNIVERSITY**  
INSPIRATION INNOVATION GLOBAL COMPETENCE

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**State** Finished

**Completed on** Tuesday, 8 November 2016, 12:40 PM

**Time taken** 24 mins 40 secs

**Grade** **75.00** out of 100.00

### Question 1

Complete

Mark 5.00 out of 5.00

A network with 6 bits remaining for the host portion will have how many usable host addresses?

Select one:

- ☒ a. 62
- ☐ b. 254
- ☐ c. 30
- ☐ d. 126

**Question 2**

Complete

Mark 5.00 out of 5.00

What IEEE standard specifies how VLAN information appears in frames and how switches interpret that information?

Select one:

- ☒ a. 802.1Q
- ☐ b. 802.1d
- ☐ c. 802.1c
- ☐ d. 802.1V

**Question 3**

Complete

Mark 2.50 out of 5.00

What two items make up a Bridge ID?

Select one or more:

- ☐ a. MAC address
- ☒ b. 2 byte priority field
- ☒ c. relevant port number
- ☐ d. software version

**Question 4**

Complete

Mark 5.00 out of 5.00

STP selects the root bridge based on which parameter?

Select one:

- ☐ a. port number
- ☒ b. bridge ID (BID)
- ☐ c. bridge version number (BVN)
- ☐ d. software revision code

**Question 5**

Complete

Mark 5.00 out of 5.00

A network with the subnet mask 255.255.255.0 would have what CIDR block?

Select one:

- ☒ a. /24
- ☐ b. /32
- ☐ c. /28
- ☐ d. /20

**Question 6**

Complete

Mark 5.00 out of 5.00

The Spanning Tree Protocol stipulates that on any bridge, only one root port, which is the bridge's port that is closest to the root bridge, can forward frames toward the root bridge.

Select one:

- ☒ True
- ☐ False

**Question 7**

Complete

Mark 5.00 out of 5.00

With VTP, the VLAN database is stored on a switch known as which option below?

Select one:

- ☐ a. root bridge
- ☒ b. stack master
- ☐ c. vlan server
- ☐ d. trunk root

**Question 8**

Complete

Mark 0.00 out of 5.00

A single switch can manage traffic belonging to several VLANs on a single interface, by configuring which option on the interface?

Select one:

- ☐ a. An access port
- ☐ b. A VLAN port
- ☒ c. A router
- ☐ d. A trunk port

**Question 9**

Complete

Mark 0.00 out of 5.00

What type of VLAN automatically receives all untagged frames?

Select one:

- ☒ a. Untagged VLAN
- ☐ b. Default VLAN
- ☐ c. Mirrored VLAN
- ☐ d. Native VLAN

**Question 10**

Complete

Mark 5.00 out of 5.00

The first iteration of STP was defined in what IEEE standard below?

Select one:

- ☐ a. 802.1c
- ☐ b. 802.3d
- ☒ c. 802.1d
- ☐ d. 802.11s

**Question 11**

Complete

Mark 5.00 out of 5.00

Only Class B and Class C networks can be subnetted.

Select one:

- ☐ True
- ☒ False

**Question 12**

Complete Mark 2.50 out of 5.00

Which of the following describes a router protocol that is used to assign a virtual IP address to a group of routers so that the routers function as a group? (Choose two.)

Select one or more:

- ☒ a. CARP
- ☐ b. HSRP
- ☒ c. VRRP
- ☐ d. GBRP

**Question 13**

Complete Mark 5.00 out of 5.00

What protocol is used to provide a common language between virtualized service applications and a network's physical devices?

Select one:

- ☐ a. OpenArch
- ☐ b. CommonStack
- ☒ c. OpenFlow
- ☐ d. VRRP

**Question 14**

Complete Mark 5.00 out of 5.00

Which two properties indicate to other connectivity devices which VLAN a transmission belongs to?

Select one or more:

- ☒ a. security association identifier
- ☐ b. vID
- ☐ c. VMAC
- ☒ d. SAID

**Question 15**

Complete Mark 5.00 out of 5.00

A CIDR block of /26 is equivalent to what subnet mask below?

Select one:

- ☐ a. 255.255.0.0
- ☐ b. 255.255.254.0
- ☐ c. 255.255.192.0
- ☒ d. 255.255.255.192

**Question 16**

Complete Mark 5.00 out of 5.00

The use of virtualization allows for isolation of each guest system such that problems on one system do not affect another system.

Select one:

- ☒ True
- ☐ False

**Question 17**

Complete Mark 5.00 out of 5.00

Which virtual network type allows VMs to communicate with each other on the same host, but disallows communication with other nodes on the network?

Select one:

- ☐ a. NAT mode
- ☐ b. bridged mode
- ☒ c. host-only mode
- ☐ d. restricted mode

**Question 18**

Complete Mark 0.00 out of 5.00

What two standards below have been developed to replace the Spanning Tree Protocol?

Select one or more:

- ☒ a. VSRP
- ☐ b. TRILL
- ☒ c. HSRP
- ☐ d. SPB



**Question 19**

Complete Mark 5.00 out of 5.00

Which supernet mask below would allow an organization to cover the following networks with one routing entry: 192.168.0.0/24, 192.168.1.0/24, 192.168.2.0/24, 192.168.3.0/24?

Select one:

- ☒ a. 255.255.252.0
- ☐ b. 255.255.240.0
- ☐ c. 255.255.255.0
- ☐ d. 255.255.255.128

**Question 20**

Complete Mark 0.00 out of 5.00

Which network type allows a vNIC to access a network directly using the host machine's NIC?

Select one:

- ☐ a. host only mode
- ☐ b. bridged mode
- ☐ c. direct mode
- ☒ d. NAT mode