ITNET03 - S20
Exam 2: WLANs and Network Management Part 1

Exam 2: WLANs and Network Management Part 1

Due Mar 15 at 2:30pm   **Points** 100   **Questions** 26

Available Mar 15 at 12:30pm - Mar 15 at 2:30pm 2 hours

Time Limit 45 Minutes

Instructions

This is an individual, **closed-book** exam. Access to any course and online materials as well as any form of communication with others aside from the instructor while taking the exam is not allowed. Take note that your actions are logged while taking the exam and any excessive switching of pages in your browser will be flagged.

Once you begin, you will be given 40 minutes to complete the exam.

Read the questions carefully and select the best answer/s among the given choices.

Reminder: Practice academic honesty. Any student who is determined to have copied or shared answers will automatically be given a 0 for this exam and for the entire course.
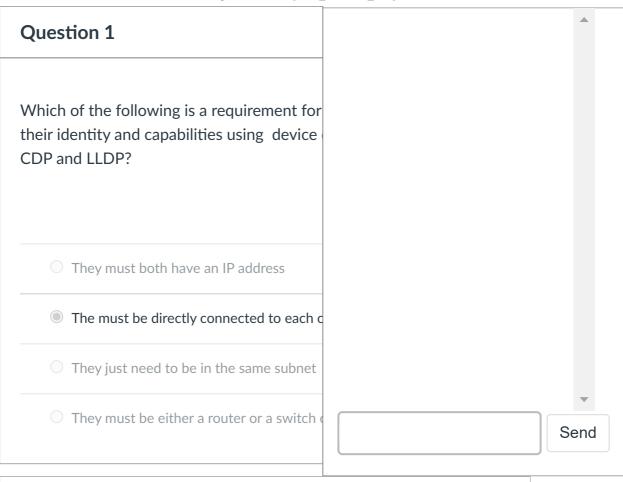
This quiz was locked Mar 15 at 2:30pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	29 minutes	88 out of 100

⊘ Correct answers are no longer available.

Score for this quiz: **88** out of 100

Submitted Mar 15 at 1:27pm

This attempt took 29 minutes.

Course Chat   ▲

Question 1

Which of the following is a requirement for
their identity and capabilities using device (
CDP and LLDP?

○ They must both have an IP address

◉ The must be directly connected to each (

○ They just need to be in the same subnet

○ They must be either a router or a switch (

[   ] Send

Question 2   2 / 2 pts

What are SNMP trap messages used for?

○ They are used to periodically monitor values related to device
performance from a Network Manager

○ To automatically block suspicious events that occur on a device

○ They serve as reports of unauthorized SNMP access to the device

◉ To send unsolicited messages about important system events to a
Network Manager

Question 3   6 / 6 pts

Which among the following are options for storing backup copies of the OS image and saved configuration of a Cisco router / switch?

☑ Flash memory

☑ USB drive

☐ NVRAM

☑ TFTP server

☐ Cloud storage

Question 4   2 / 2 pts

Which of the following is considered an obsolete WLAN authentication standard due to its keys being breakable within a few minutes?

◉ WEP

○ WPA

○ WPA2

○ WPA3

Question 5   2 / 2 pts

Which of these is a primary reason for synchronizing the clocks of devices in a network?

○ To ensure that event logs from different devices all include a timestamp

○ To ensure than an accurate time can also be set to user devices

○ To prevent devices from relying on a possibly inaccurate internal clock

◉ To ensure that an accurate sequence of events can be reconstructed from events logged by different devices

Question 6   2 / 2 pts

Assuming a Cisco router has multiple IOS images in Flash and the boot system command is not configured, which IOS image will the router choose to load on bootup?

○ The image with the latest IOS version number

○ The image most recently copied into Flash

◉ The first valid image it finds in Flash

○ Neither is automaticlly booted. The router will issue a prompt for the user to select which image to boot before proceeding.

Question 7   2 / 2 pts

To prevent unwanted intruders from easily discovering the presence of a wireless network, which technique can be used?

○ MAC Address Filtering

◉ SSID Cloaking

○ Shared Key Authentication

○ RADIUS authentication

Question 8   **2 / 2 pts**

What does it mean when a wireless device is certified with a 'WiFi' logo?

○ It is licensed for public use by government authorities

◉ It is designed to work compatibly with other 'WiFi' devices

○ It is capable of supporting a wireless LAN using any 802.11 variant

○ It has passed the quality standards of the IEEE

Question 9   **2 / 2 pts**

When performing a password recovery procedure on a Cisco router, what is the purpose of changing the value of the configuration register to the value 0x2142?

◉ This allows the router to skip loading the saved config, thereby allowing the administrator to bypass the password input prompt to enter config mode

○ This causes the router to reset back to factory settings so that the administrator can redo the configurations

○ This causes the router to enter ROMMON mode upon bootup so that the admin can access the password reset facility of the device

○ This selectively erases the Enable secret password from the saved configuration of the device so that it will no longer be required onthe next reboot

Question 10   6 / 6 pts

A router needs to be have SNMP version 2c enabled. The router IP address is 192.168.1.1/24, while the host on which the NMS software will be run is on a different network with an IP address of 192.168.25.6/24. Only the NMS must be able to query the router for configurations and device status, and at the same time receive trap messages from the router. Changing devices configuration through SNMP is not allowed.

How should SNMP be configured on the router? Fill in the blanks with the necessary configuration parameters.

```
R1(config)#snmp-server community SNMPp@ss ro
 SNMP_ACL
R1(config)#snmp-server enable traps
R1(config)#snmp-server host 192.168.25.6
 version 2c
R1(config)#ip access-list standard SNMP_ACL
R1(config-std-nacl)#permit host 192.168.25.6
```

Answer 1:

ro

Answer 2:

192.168.25.6

Answer 3:

192.168.25.6

Question 11   6 / 6 pts

Fill in the blanks with the correct SNMP component:

A network administrator uses the SNMP Manager software to centrally monitor and manage network devices. The software communicates with the SNMP agents running on the devices to query or change device characteristics stored in their individual MIB .

Answer 1:

SNMP Manager

Answer 2:

SNMP agents

Answer 3:

MIB

Question 12   2 / 2 pts

Which non-secure service is an open standard available on Cisco devices that can reveal significant platform and configuration information about a device and potentially make it more vulnerable to attack?

○ SNMP

○ CDP

○ Syslog

◉ LLDP

Question 13   2 / 2 pts

A user would like to quickly set up a wireless network connection between 2 laptops to perform a file transfer. Which WLAN topology mode is best suited for this scenario?

○ ESS Mode

○ BSS Mode

◉ Ad Hoc Mode

○ Tethering Mode

Question 14   2 / 2 pts

What is a potential issue when the Syslog logging severity level is set to a value that is too high (e.g. logging level = 7)

○

Devices will not send any log entries to the logging server anymore

○

Devices may not log events that are not yet critical but still important for the administrator to know

◉

Devices may send too many event notifications to the server and make them difficult to review for the administrator

○ Not all logging servers support this level of logging

Question 15   2 / 2 pts

What is the advantage of using enterprise mode authentication in a WLAN?

○ It allows access of the WLAN to be tracked back to individual users

○ It reduces the risk of a leaked password compromising the security of the entire WLAN

○ It allows any changes in user login credentials to be immediately take affect across multiple access points
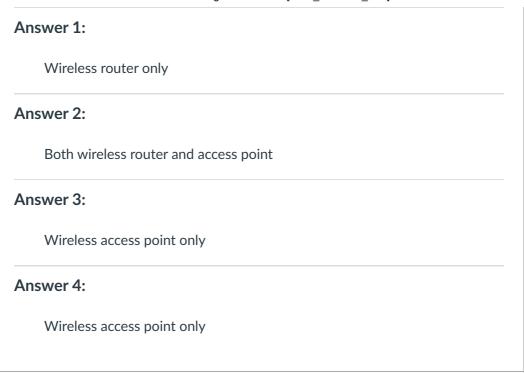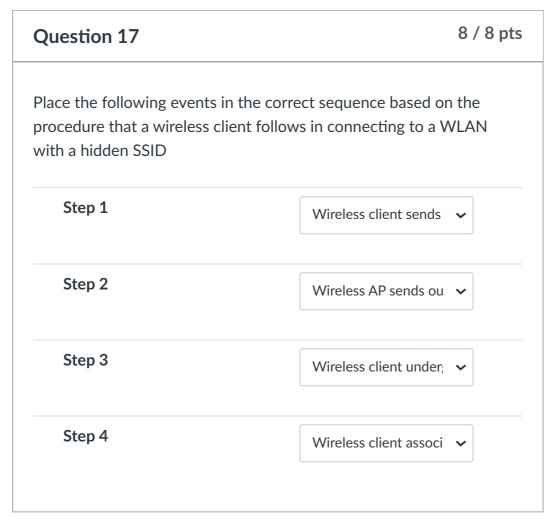
⦿ All of these

Partial

Question 16   6 / 8 pts

Determine whether the statements below correctly describe a wireless access point, wireless home router, or both

- Capable of forwarding packets from wireless clients to another subnet Wireless router only

- Must be configured with the SSID and security protocol for the wireless network Both wireless router and access point

- Places connected wireless clients in the same broadcast domain Wireless access point only

- Must rely on other network devices to provide basic LAN services such as DHCP, DNS, etc. Wireless access point only

Answer 1:

Wireless router only

Answer 2:

Both wireless router and access point

Answer 3:

Wireless access point only

Answer 4:

Wireless access point only

Question 17   8 / 8 pts

Place the following events in the correct sequence based on the procedure that a wireless client follows in connecting to a WLAN with a hidden SSID

Step 1	Wireless client sends ⌄
Step 2	Wireless AP sends ou ⌄
Step 3	Wireless client under ⌄
Step 4	Wireless client associ ⌄

Incorrect

Question 18   2 / 4 pts

Which of the following statements correctly describes the data frame transmission procedure following the CSMA/CA algorithm? (Choose 2)

☑ A device must perform a random backoff as soon as it detects that a frame collision occurred

---

☐ A device must wait for a CTS from the access point before proceeding to transmit a data frame

---

☐ A device may immediately begin transmitting the data frame once it sees that the channel is available

---

☑ A device thats wants to send a frame must first listen on the channel to check if it is available

---

Question 19   6 / 6 pts

What are characteristics of SNMP community strings? (Choose 3.)

☑ SNMPv1 and SNMPv2use community strings for access to device MIBs

---

☐ SNMPv2 has better security than SNMPv1 because it can encrypt community strings

☐

An NMS can freely access the MIB of an SNMP-enabled device if the
device does not have any community string configured

☑

The community string is a shared password that is used by all NMS
that retrieve data from the same SNMP-enabled device

☑

SNMP read-write community strings can be used to both get and set
information on an SNMP-enabled device.

Question 20   4 / 4 pts

Which of the following are TRUE regarding the Syslog protocol?
Choose 2

☐

Syslog is a network event logging protocol supported by routers and
switches only

☑

Syslog messages sent to a remote server or buffer can be stored long
term and may be reviewed at any time

☑

Syslog uses a facility code to indicate which hardware or software
component generated the log entry

☐

The severity level of a syslog message varies depending on its log
destination

Question 21   6 / 6 pts

Which of the following best describes the typical characteristics of a
WLAN designed for an enterprise network? (Choose 3)

☐ Limited to a single Basic Service Set

☑
Uses a WLC to manage centrally manage configurations of access
points

☐ Uses a wireless router to connect clients

☑ Performs client authentication using an AAA server

☑
Uses access points that support VLAN trunk connections to the
distribution system

Partial

Question 22   4 / 6 pts

Which of the following are considered tasks of the wireless access
point in a CAPWAP split MAC architecture? (Choose 3)

☐ Perform client authentication

☑ Send beacons and probe responses

☑ Manage WLAN association of roaming wireless clients

☑ Acknowledge and transmit wireless frames

☐ wireless frame encryption / decryption

☐ Translate 802.11 format frames to wired Ethernet frames

Incorrect

Question 23   0 / 4 pts

Determine which among the the statements below pertaining to the SNMP management information base (MIB) are FALSE (Choose 2).

- ☐ The MIB has exactly the same structure across all devices regardless of device type and manufacturer

- ☑ The MIB has a structure similar to a tree wherein device information is organized into a hierarchical database

- ☑ Each SNMP-enabled device in the network has its own MIB where its information is stored

- ☐ All nodes in the MIB may have their value changed using the SNMP SET request

Question 24   2 / 2 pts

Which of the following characteristics of a wireless network arise from the shared nature of a wireless communication medium? (Choose 2)

- ☑ WLAN connections work in half duplex mode only

- ☐ Wireless signals degrade when passing through obstacles

- ☑ Wireless devices are susceptible to interference

- ☐ Wireless connections have limited range

Incorrect

Question 25   2 / 4 pts

Which of the following statements are TRUE regarding the operation of the Network Time Protocol? (Choose 2)

☑
A device must acquire its time from a very accurate timekeeping device to qualify as an NTP server

☐
The stratum number of a device increases as its number of hops away from the NTP server increases

☐
A device will synchronize its clock only with a server that has the same stratum level as itself

☑
An NTP enabled devices will synchornize its clock only with the server specified in its configuration

Question 26   6 / 6 pts

To successfully join a wireless LAN, which among the following must match between the client and AP? Choose 3

☑ SSID

☑ Security protocol

☐ BSSID

☑ 802.11 standard used

☐ Antenna type

Quiz Score: **88** out of 100

◂ Previous   Next ▸

Submission Details:

Time:	29 minutes
Current Score:	88 out of 100
Kept Score:	88 out of 100