



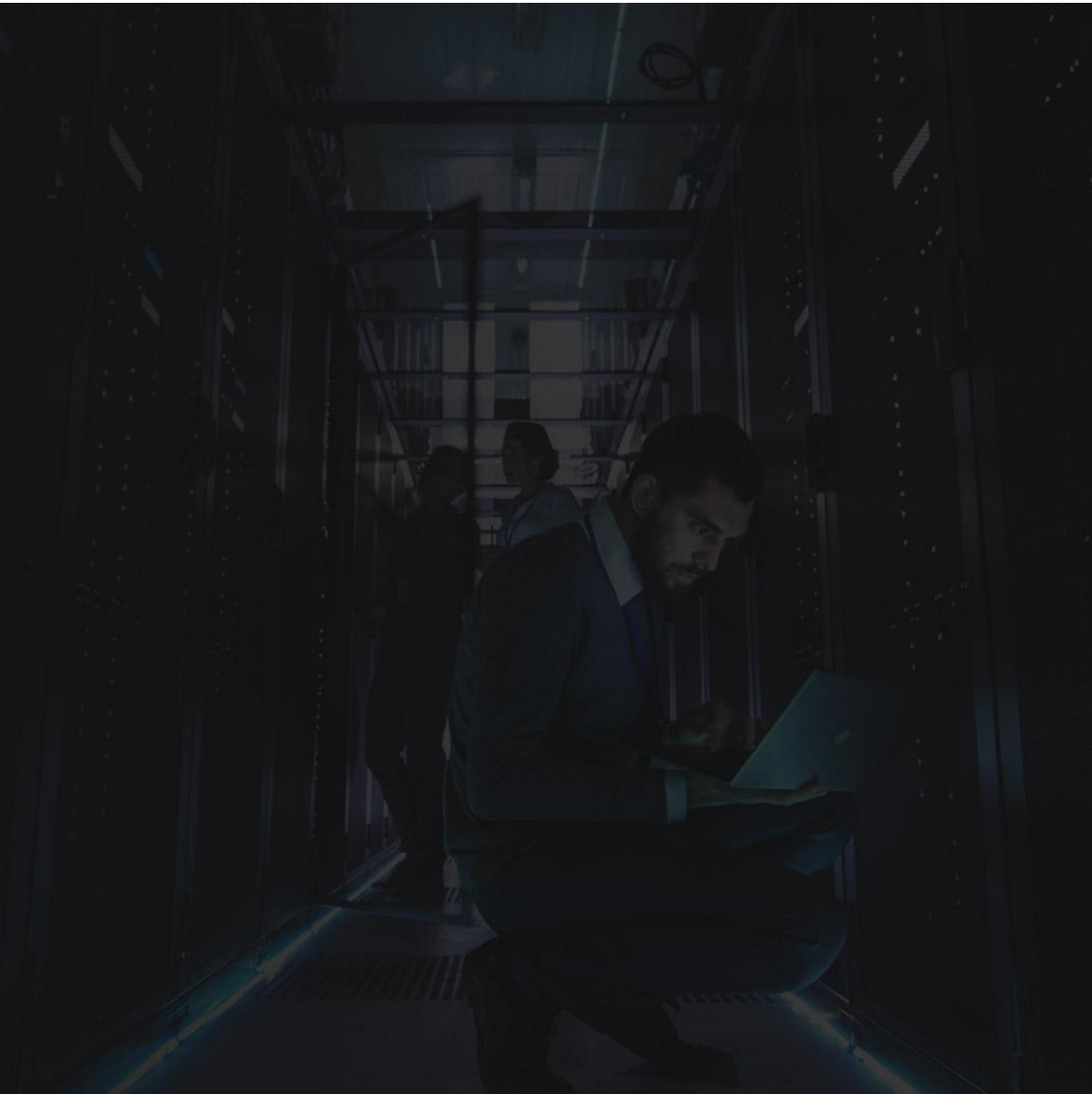
Wireless Principles

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Question-1

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Question-1

- + What IEEE standard (which has been amended many times over the years) defines wireless LAN operations and protocols?
- + [1.11]

☐

A. 802.2

☐

B. 802.3

☐

C. 802.12

☐

D. 802.11

☐

E. 802.5

ANSWER

- + What IEEE standard (which has been amended many times over the years) defines wireless LAN operations and protocols?
- + [1.11]

☐

A. 802.2

☐

B. 802.3

☐

C. 802.12

☒

D. 802.11

☐

E. 802.5



Question-2

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Question-2

- + A single wireless access point and its set of associated wireless clients all comprise a single _____?
- + [1.11]

☐

A. BSS

☐

B. ESS

☐

C. SSID

☐

D. Cluster

☐

E. Wi-Fi Group

ANSWER

- + A single wireless access point and its set of associated wireless clients all comprise a single ____?
- + [1.11]



A. BSS



B. ESS



C. SSID



D. Cluster



E. Wi-Fi Group



Question-3

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Question-3

+ Which of the following statements about a BSSID are true?

+ [1.11]

☐

A. It is the MAC address of the access point

☐

B. It is the IP address of the access point

☐

C. It changes periodically for security purposes

☐

D. It is advertised by wireless clients

☐

E. It is a configurable and descriptive name of the BSS

ANSWER

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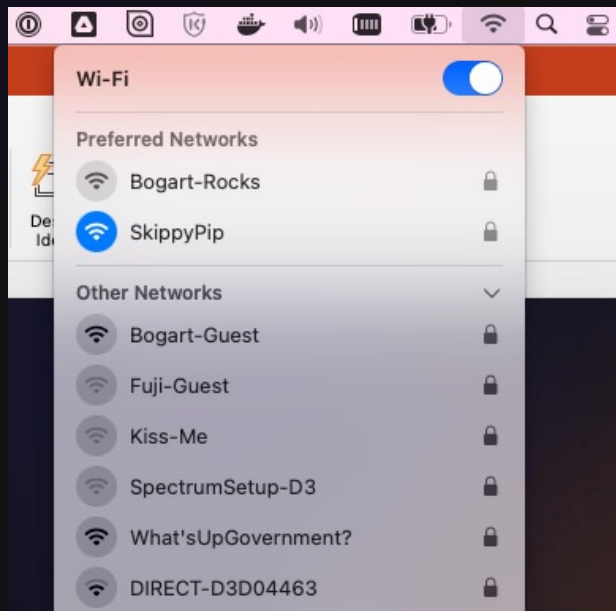
Question-4

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Question-4

- + When clicking on your Wi-Fi adapter you see the following available networks. Each of the names of these networks represents a(an) _____ that has been advertised by an access point. [1.11b]



☐ A. BSSID

☐ B. BSS

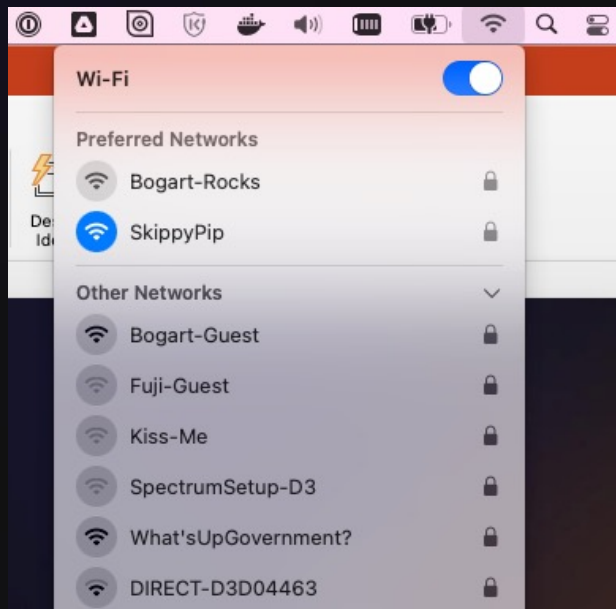
☐ C. SSID

☐ D. RSSI

☐ E. Cell-ID

ANSWER

- + When clicking on your Wi-Fi adapter you see the following available networks. Each of the names of these networks represents a(an) _____ that has been advertised by an access point. [1.11b]



☐ A. BSSID

☐ B. BSS

☒ C. SSID

☐ D. RSSI

☐ E. Cell-ID



Question-5

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Question-5

+ In 802.11 terminology, what name is given to the upstream wired connection (or wired network) connected to a wireless access point?

+ [1.11]

☐

A. BSS

☐

B. ESS

☐

C. Distribution System

☐

D. Transit System

☐

E. LAN Interconnect

ANSWER

+ In 802.11 terminology, what name is given to the upstream wired connection (or wired network) connected to a wireless access point?

+ [1.11]

☐

A. BSS

☐

B. ESS

☒

C. Distribution System

☐

D. Transit System

☐

E. LAN Interconnect



Question-6

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Question-6

- + Which of the following is a benefit of advertising multiple SSIDs (each assigned to its own VLAN) from a single wireless access point?
- + [1.11b]

☐

A. It allows more clients to be associated to that AP than if it were advertising on a single SSID.

☐

B. It allows more clients to communicate to the access point at the same time.

☐

C. It places clients into separate collision domains.

☐

D. It allows clients from different SSIDs to be placed onto different wireless channels.

☐

E. None of these answers are correct

ANSWER

- + Which of the following is a benefit of advertising multiple SSIDs (each assigned to its own VLAN) from a single wireless access point?
- + [1.11b]

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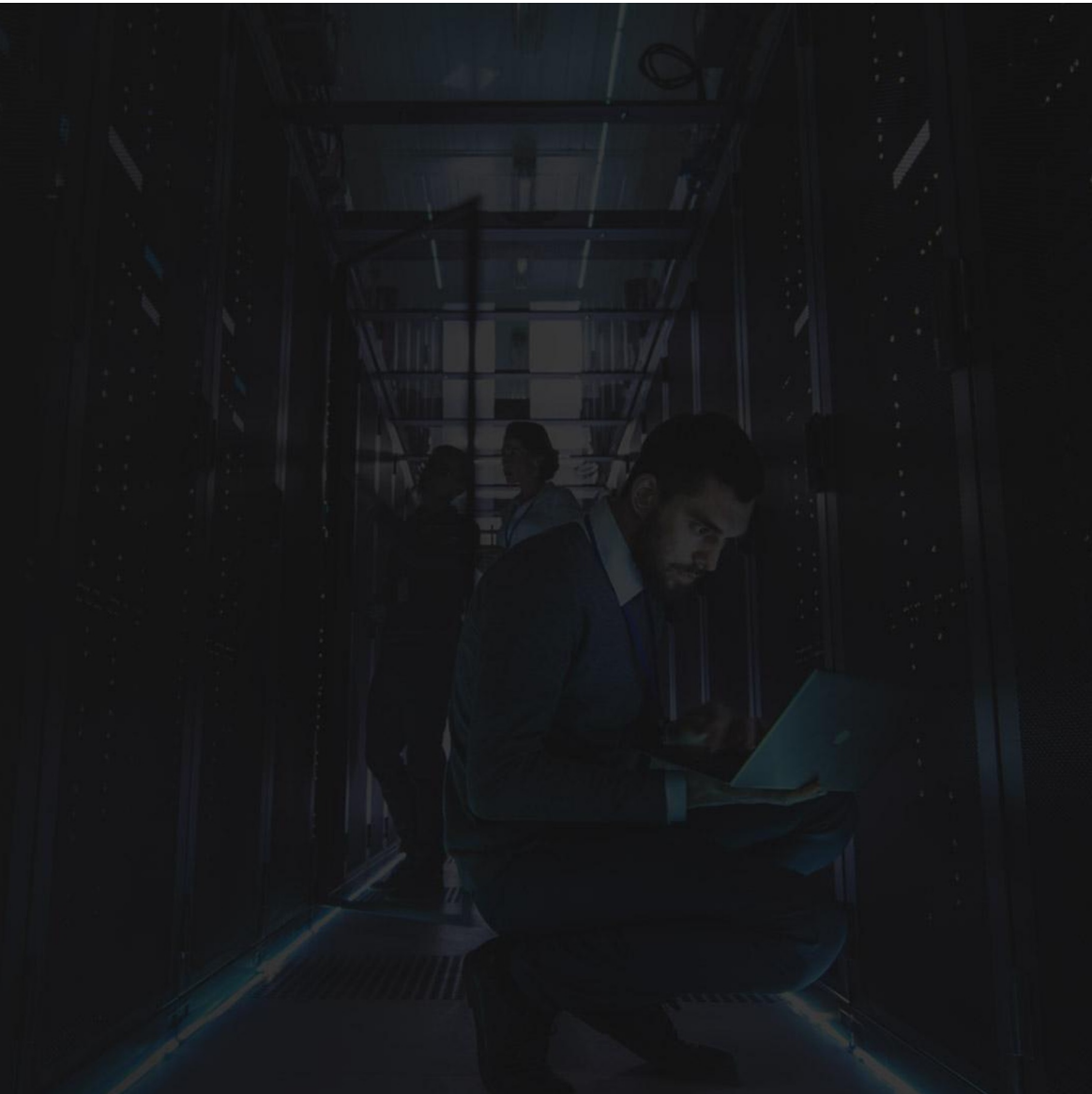
☒

E. None of these answers are correct



Question-7

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Question-7

- + Which of the following statements is true about an 802.11 ESS?
- + (Select two answers)
- + [1.11]

- ☐ A. It requires only a single access point connected to a distribution system.
- ☐ B. It requires at least two access points connected to the same distribution system.
- ☐ C. If using two-or-more access points, they should all advertise the same SSIDs
- ☐ D. It supports a single access point connected to two or more independent distribution systems.
- ☐ E. An ESS with only a single access point can only advertise a single SSID

ANSWER

- + Which of the following statements is true about an 802.11 ESS?
- + (Select two answers)
- + [1.11]

☐

A. It requires only a single access point connected to a distribution system.

☒

B. It requires at least two access points connected to the same distribution system.

☒

C. If using two-or-more access points, they should all advertise the same SSIDs

☐

D. It supports a single access point connected to two or more independent distribution systems.

☐

E. An ESS with only a single access point can only advertise a single SSID



Question-8

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Question-8

+ Which of the following elements would you find in an 802.11 IBSS?

+ (Select two answers)

+ [1.11]

☐

A. An access point

☐

B. Two wireless stations

☐

C. An RF channel

☐

D. A distribution system

☐

E. An ESSID

ANSWER

+ Which of the following elements would you find in an 802.11 IBSS?

+ (Select two answers)

+ [1.11]

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A. An access point

☒

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☒

C. An RF channel

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D. A distribution system

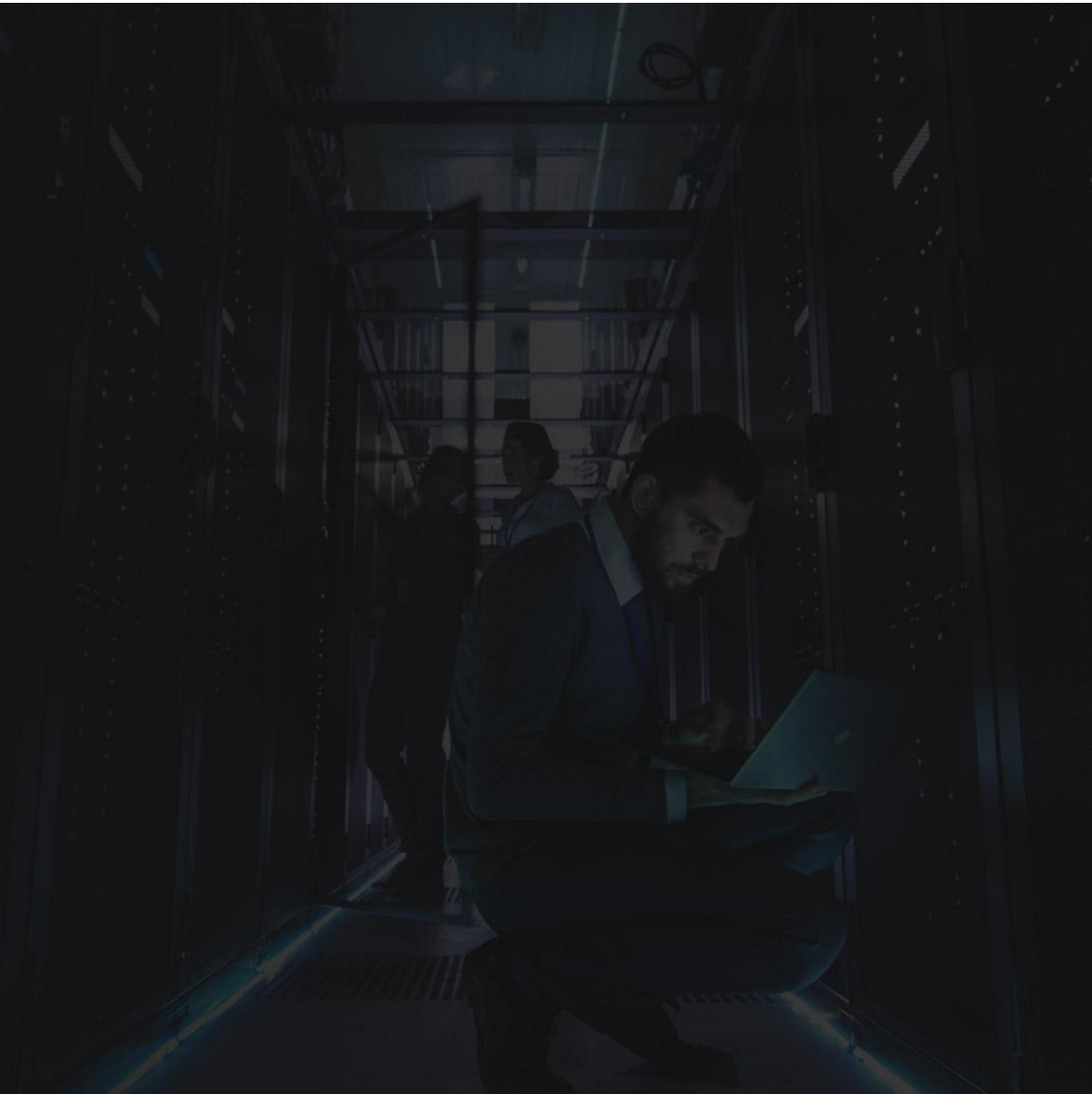
☐

E. An ESSID



Question-9

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Question-9

- + What is the basic unit of measurement for measuring the frequency of an electro-magnetic wave?
- + [1.11c]

☐

A. Urpf

☐

B. Hz

☐

C. Cos

☐

D. Amp

☐

E. Volt

ANSWER

- + What is the basic unit of measurement for measuring the frequency of an electro-magnetic wave?
- + [1.11c]

☐

A. Urpf

☒

B. Hz

☐

C. Cos

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D. Amp

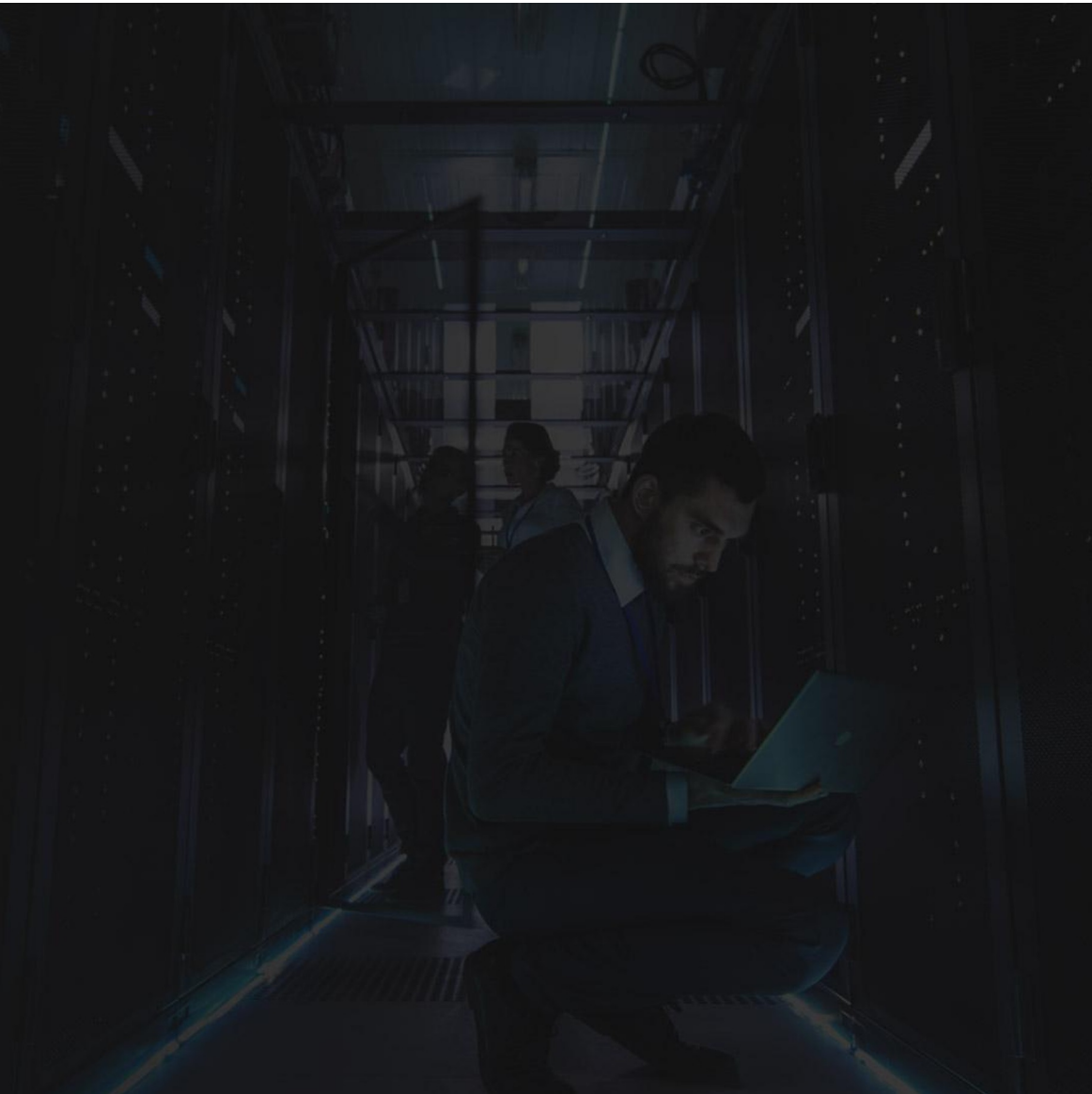
☐

E. Volt



Question-10

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Question-10

- + Which of the following answers is equivalent to a wave that oscillates 5000 times per second?
- + [1.11c]

☐

A. 5Hz

☐

B. 500Hz

☐

C. 5KHz

☐

D. 5MHz

☐

E. 50KHz

ANSWER

- + Which of the following answers is equivalent to a wave that oscillates 5000 times per second?
- + [1.11c]

☐

A. 5Hz

☐

B. 500Hz

☒

C. 5KHz

☐

D. 5MHz

☐

E. 50KHz



Question-11

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Question-11

+ Which two radio frequency bands are most commonly used for wireless LANs?

+ (Select two answers)

+ [1.11c]

☐ A. 1.5Ghz

☐ B. 2.4Ghz

☐ C. 4Ghz

☐ D. 5Ghz

☐ E. 9.1Ghz

ANSWER

+ Which two radio frequency bands are most commonly used for wireless LANs?

+ (Select two answers)
+ [1.11c]

☐ A. 1.5Ghz

☒ B. 2.4Ghz

☐ C. 4Ghz

☒ D. 5Ghz

☐ E. 9.1Ghz



Question-12

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Question-12

+ When using the 2.4Ghz band for Wi-Fi, what channels (if designed properly) can be used that are considered non-overlapping channels?

+ (Select three answers)

+ [1.11a]

☐

A. 1

☐

B. 3

☐

C. 9

☐

D. 6

☐

E. 11

ANSWER

+ When using the 2.4Ghz band for Wi-Fi, what channels (if designed properly) can be used that are considered non-overlapping channels?

+ (Select three answers)

+ [1.11a]



A. 1



B. 3



C. 9



D. 6



E. 11



Question-13

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Question-13

- + Which of the following IEEE 802.11 amendments do *NOT* operate within the 5Ghz bands?
- + (Select two answers)
- + [1.11]

☐

A. 802.11ac

☐

B. 802.11b

☐

C. 802.11ax

☐

D. 802.11n

☐

E. 802.11g

ANSWER

- + Which of the following IEEE 802.11 amendments do NOT operate within the 5Ghz bands?
- + (Select two answers)
- + [1.11]

☐

A. 802.11ac

☒

B. 802.11b

☐

C. 802.11ax

☐

D. 802.11n

☒

E. 802.11g



Question-14

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Question-14

+ Which of the statements about using encryption in Wi-Fi networks is true?

+ (Select two answers)

+ [1.11d]

☐

A. All clients in the same BSS must use the same encryption method.

☐

B. Clients in the same BSS may use different encryption methods

☐

C. All clients share the same encryption key

☐

D. Each client is given a unique encryption key

☐

E. In a BSS, encryption may be used by some clients while other clients may opt not to use it.

ANSWER

+ Which of the statements about using encryption in Wi-Fi networks is true?

+ (Select two answers)

+ [1.11d]



A. All clients in the same BSS must use the same encryption method.



B. Clients in the same BSS may use different encryption methods



C. All clients share the same encryption key



D. Each client is given a unique encryption key

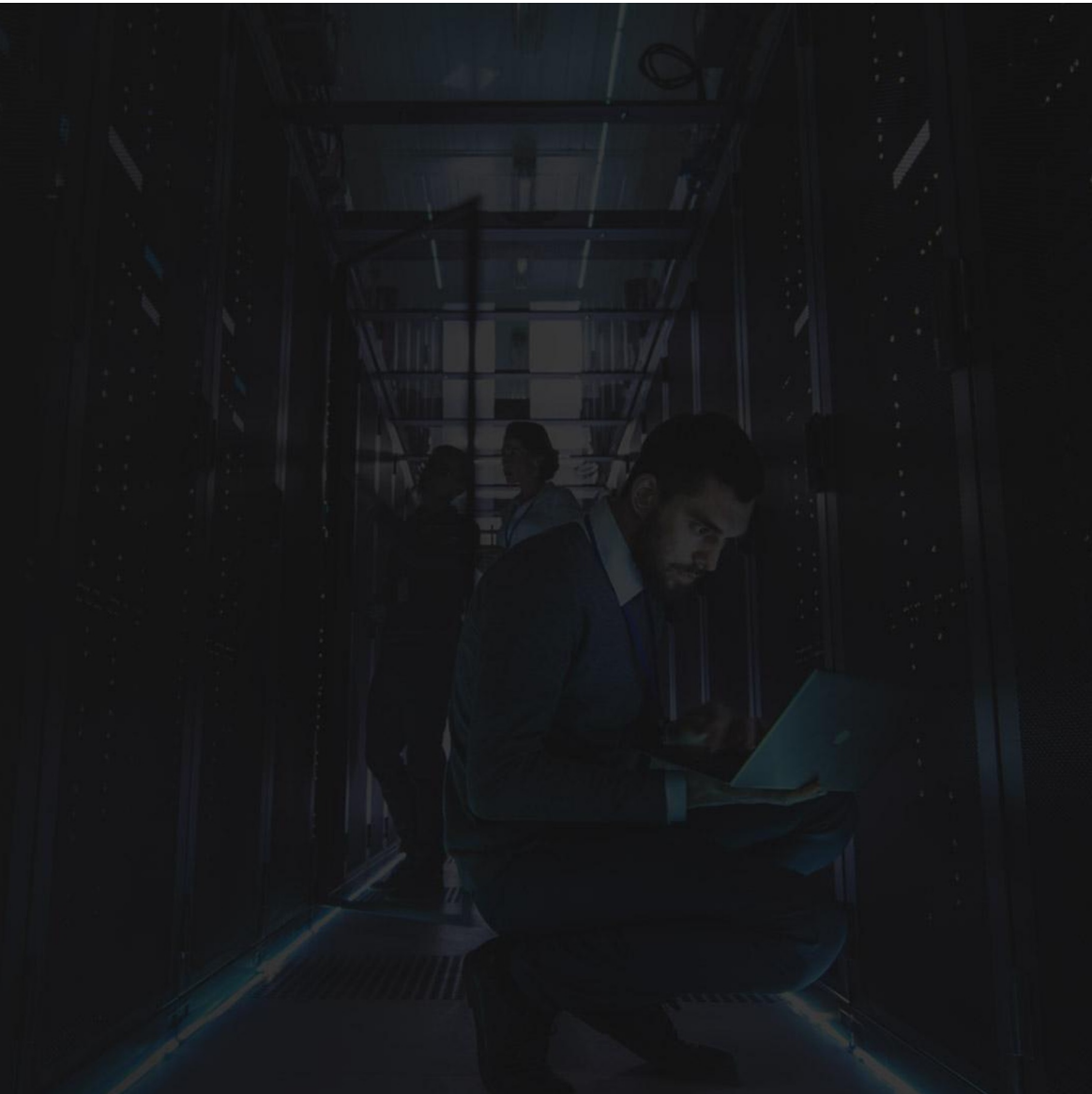


E. In a BSS, encryption may be used by some clients while other clients may opt not to use it.



Question-15

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Question-15

- + When using Wi-Fi encryption, what is the purpose of the “Group Encryption Key”?
- + [1.11d]

- ☐ A. To encrypt packets sent from the access point meant for every station to receive.
- ☐ B. To encrypt packets sent from a station meant for every other station to receive.
- ☐ C. It is used to encrypt and distribute individual encryption keys.
- ☐ D. It is used as a fallback when a station loses its individual encryption key
- ☐ E. There is no such thing as a Group Encryption Key

ANSWER

- + When using Wi-Fi encryption, what is the purpose of the “Group Encryption Key”?
- + [1.11d]

- ☒ A. To encrypt packets sent from the access point meant for every station to receive.
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Thanks for Watching!