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QUESTION & ANSWER

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Exam : **MSC-241**

Title : Design and Deploy for MOTOTRBO Solutions EMEA

Version : Demo

1.A MOTOTRBO repeater is installed on top of a tall building located in a downtown area. The repeater provides excellent coverage to a large area. This is a single repeater, connected to a four-stack dipole antenna via a duplexer and low loss cable. Unfortunately, some of the users are complaining that the radio signal is very poor in the downtown area, and in some places, close to the repeater, they get no signal at all.
What is the MOST likely explanation for this?
A. The antenna is faulty or repeater is faulty.
B. A duplexer should not be used on a tall building.
C. The radiation pattern of the antenna and its HAAT (Height Above Average Terrain) is resulting in overshoot.
D. Any one of these could explain what the users are experiencing.
Answer: C

2.When a Master Repeater in an IP Site Connect system is behind a NAT firewall router, what IP address is used in all peer repeaters for the Master Repeater?
A. The LAN address of the master repeater
B. The Limited Broadcast IP address of the LAN subnet
C. The WAN address of the router
D. The DHCP address assigned by the router
Answer: C

3.A two-way radio site with flat terrain and very little ground clutter has a unity gain transmit antenna with a measured Effective Radiated Power (ERP) at 40 Watts.
What can be expected if the antenna is changed to a 6 dB gain omnidirectional antenna (select TWO)?
A. Radio receive signal strength closer to the horizon decreases.
B. Radio receive strength closer to the horizon increases.
C. Radio receive signal strength directly below the site increases.
D. Radio receive signal strength directly below the site decreases.
Answer: B,D

4.A Capacity Plus system is operating at a remote site with a WAN connection to a local service shop for monitoring with RDAC. An IP networking failure caused an outage to the remote site.
How will this impact the Capacity Plus system’s performance?
A. Repeaters will not be able to assign the next Rest Slot.
B. The increased end-to-end IP Latency will result in garbled voice audio.
C. The IP network failure will prevent voice calls from being assigned across all repeaters.
D. RDAC will not be able to monitor system, but no impact to Capacity Plus system performance.
Answer: D

5.When a Master Repeater is behind a NAT firewall router what must be configured in the router to ensure that all traffic destined to the Master Repeater is routed correctly?
A. DHCP server - The master repeater uses a DHCP address assigned by the router.
B. Enable Port forwarding - All traffic targeted to the master repeaters source port must be port forwarded to the master repeater’s IP address.

C. Route table - All WAN traffic targeted to the router's WAN address must be routed to the master repeater's LAN address.
D. Disable Port forwarding
Answer: B

6.How does a radio obtain its Air IP Address? It is:
A. Provided by DHCP.
B. Received during ARS registration.
C. Provided by the repeater.
D. Derived by DMR ID of the radio.
E. Provided by the presence notifier during registration.
Answer: E

7.What is the purpose of RF antenna isolation?
A. Reduce the antenna wind load on the tower.
B. Protect the RF equipment from lightning strikes.
C. Reduce the harmful effects of external transmit carriers.
D. Electrically insulate the antenna from the mounting structure.
Answer: C

8.Services and/or applications such as Text Messaging, Telemetry, and GPS, that are loaded in the radio, are uniquely identified by which of the following?
A. TCP port
B. UDP port
C. IP address of the application
D. Application ID
Answer: B

9.MOTOTRBO IP Site Connect uses which of the following Internet Protocol packets for communication between repeaters?
A. TCP
B. UDP
C. SNMP
D. SIP
Answer: B

10.You are in the process of staging a Capacity Plus system for a new client.
Your project manager has asked you to perform in-house testing of the repeaters without RF networking equipment by terminating the output of the PA. Given this request, which of the following statements is TRUE?
A. The RF output can be unterminated.
B. This can be done with a Network Analyzer.
C. This can be done with a 50 Ohm RF"dummy"load.
D. This can be done with a wattmeter with a capacity of 100 watts or more.

Answer: C

11.In a MOTOTRBO subscriber radio, the beacon interval for IP site connect:
A. Controls how often the radio will transmit to the repeater.
B. Defines the period of time in which the radio expects to receive a beacon from a repeater.
C. Defines the period of time that the radio transmits the GPS coordinates.
D. Controls how often the radio will pause transmitting to receive a beacon from another subscriber unit.
Answer: B

12.You are trying to take advantage of a one antenna configuration for a new IP Site Connect system. In order to do this, the inputs from several repeaters are coupled together into one coaxial transmission line using a:
A. Duplexer
B. VSWR normalizer
C. Receiver multi-coupler
D. Tower top RF pre-amplifier
Answer: C

13.The modulation type that MOTOTRBO employs is:
A. AM - Amplitude
B. SSB - Single Side Band
C. FM - Frequency Modulation
D. 4-level Frequency Shift Keying (4FSK)
Answer: D

14.What is the purpose of the Master repeater in a Capacity Plus system?
A. To allocate a channel to a call
B. To help a repeater in discovering other repeaters
C. To select the next Rest channel
D. To help a radio find the Rest channel
E. To register the presence of a radio
Answer: B

15.Ordering a premium option to enable a premium feature will generate which of the following?
A. The assembly of a hardware kit
B. An entitlement ID that is received via e-mail
C. A physical USB key that is connected between the programming radio and the radio
D. A special sequence to press the radio buttons that will enable the feature
Answer: B