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CompTIA RF0-001

RFID+ Certification

Q&A DEMO

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1. A customer has an RFID system to sort packages by their destination in real time. When first installed, the system worked properly but now most packages are not going to the correct destination. Which of the following BEST describes the cause of this problem?

- A. There are increased losses in the antenna cabling.
- B. Interrogator output power has degraded over time.
- C. Sensors that control the interrogator were repositioned.
- D. The customer is using a bad batch of tags.

Answer: C

2. An animal identification system is used in feedlots and transfer gates are equipped with 135 kHz interrogators and are of a size to support one animal. When two animals attempt to get through at the same time, a problem occurs because the:

- A. 135 kHz systems do not have anti-collision algorithms.
- B. 135 kHz interrogator system is broken because of the congestion.
- C. animals expand the gates to a size where the second animal cannot be read.
- D. animals are moving too slowly to be read only once.

Answer: A

3. Pallets in a freezer are tagged with passive ultra high frequency (UHF) tags. The interrogator at the loading dock has a high misread rate on pallets from the freezer. The MOST likely cause of the high misread rate is that:

- A. there is a higher temperature in the trailer.
- B. there is condensation on the tags.
- C. the tag and interrogator are at different temperatures.
- D. the tag temperature is too low.

Answer: B

4. Interrogation zones that are found to be interfering with an existing system can BEST be resolved by doing which of the following?

- A. Shielding the zone with a reflective or absorptive material.
- B. Replacing the existing components that are interfering.
- C. Turning off the RFID system.

D. Upgrading the RFID system to Electronic Product Code (EPC) Class 1 Gen 2 specifications.

Answer: A

5. When installing a passive ultra high frequency (UHF) system that will read tags on consistently oriented cases as they move past an interrogator on a conveyor system, which of the following types of antenna would provide the BEST results?

A. whip

B. Yagi

C. circularly polarized

D. linearly polarized

Answer: D

6. A technician is assisting with a site analysis of a passive ultra high frequency (UHF) RFID system for a conveyor application requiring several antennas to be placed in close proximity. The BEST reason for using absorptive materials would be to:

A. absorb the RF from outside interference sources.

B. protect the interrogator's receiver from becoming saturated.

C. decrease the likelihood of electrostatic discharge (ESD) affecting performance.

D. increase the size of the field pattern covered by the antennas.

Answer: B

7. An RFID interrogator is reading tags on cartons on a conveyor and cartons are directed to the proper truck by electrically-operated gates on the conveyor line. A carton reaches the first gate in one-half second. The decision to open a gate is BEST made by:

A. a universal serial bus (USB) connection to the remote server.

B. an interrogator with WiFi capability.

C. an Ethernet connection to the remote server.

D. an interrogator with an edge-server capability.

Answer: D

8. When mounting an interrogator on a vehicle, the MOST important consideration would be:

- A.making the vehicle look good.
- B.employee safety.
- C.preventing damage to the interrogator.
- D.ensuring read capabilities.

Answer: B

9. When preparing for the installation of passive RFID forklift system, all of the following can be done EXCEPT:

- A.allowing ultra high frequency (UHF) and RF cabling to flex and bend with the movements of the forks.
- B.mounting antennas on the moving forks.
- C.mounting the RFID interrogator on the moving fork.
- D.routing serial cables with hydraulic tubes.

Answer: A

10. When firmware upgrades become available, which of the following should the technician consider FIRST?

- A.How to install the upgrade.
- B.When to schedule the upgrade.
- C.Whether the upgrade can be downloaded from the internet.
- D.The benefits of new upgrade.

Answer: D

11. In a clamp forklift application, tags may:

- A.last longer.
- B.be easier to read.
- C.be read at higher rate.
- D.be crushed.

Answer: D

12. RFID media should be stored in:

- A.electrostatic discharge (ESD) protected packaging.
- B.metal containers.
- C.rolls of ten.

D.the order that it was received.

Answer: A

13. Which of the following conditions would be MOST likely to cause a ghost tag read?

A.The interrogator did not pass electronic product code (EPC) compliance testing.

B.There is a broken strap between the chip and the antenna on the tag.

C.There are too many tags within an interrogator zone.

D.There is RF interference in an interrogator zone.

Answer: D

14. One hundred tagged cases pass an interrogator but one hundred and one reads are recorded. The read which does not match is called:

A.a ghost read.

B.failure notification.

C.noise.

D.a duplicate tag.

Answer: A

15. When reviewing the data content of a tag, the data length is less than expected. The MOST likely cause of this would be that:

A.power to the interrogator is shorting out.

B.software filters are set too low.

C.a tag constructed for fewer bits is being read.

D.the battery pack in the interrogator needs to be changed.

Answer: C