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QUESTION 1

A network engineer is monitoring a fiber uplink to a remote office and notes the uplink has been operating at 100% capacity for a long duration. Which of the following performance metrics is MOST likely to be impacted with sustained link saturation?

- A. Latency
- B. Jitter
- C. Speed
- D. Bandwidth

Correct Answer: A

When a fiber uplink is operating at 100% capacity for an extended period of time, it can cause sustained link saturation. This can impact the network's performance by increasing latency. Latency is the time it takes for a packet to travel from the source to its destination. When there is link saturation, packets may have to wait in a queue before being transmitted, which increases the time it takes for them to reach their destination. As a result, users may experience delays or timeouts when accessing network resources. Other metrics such as jitter, speed, and bandwidth are also important, but they are not as directly impacted by sustained link saturation as latency.

QUESTION 2

A rural municipality has built an external public WiFi meshed network using omnidirectional antennas. After the initial build, the performance meets expectations, and the municipality enters a six-month pilot program in the fall. By the end of the pilot program in the spring, the performance has fallen dramatically. The pilot has a static number of users with no increases in usage from beginning to end. Which of the following would be the MOST likely reason for the performance issues?

- A. Too many users in the pilot creating overcapacity issues
- B. Buildings creating reflection issues
- C. Omnidirectional antennas being insufficient for outdoor use
- D. Foliage creating absorption issues

Correct Answer: D

QUESTION 3

A consultant is working with two international companies. The companies will be sharing cloud resources for a project.

Which of the following documents would provide an agreement on how to utilize the resources?

- A. MOU
- B. NDA



- C. AUP
- D. SLA

Correct Answer: A

A memorandum of understanding (MOU) is a document that describes an agreement between two or more parties on how to utilize shared resources for a project. An MOU is not legally binding, but it outlines the expectations and responsibilities of each party involved in the collaboration. An MOU can be used when two international companies want to share cloud resources for a project without creating a formal contract. References:
<https://www.comptia.org/training/books/network-n10-008-study-guide> (page 405)

QUESTION 4

Ann, a user, is attempting to charge her phone using the USB port of her computer. She realizes the port has been disabled. Which of the following policies would restrict the use of the USB port?

- A. BYOD
- B. NDA
- C. SLA
- D. AUP

Correct Answer: A

QUESTION 5

A technician needs to find the MAC address of a connecting router. Which of the following commands should the technician use?

- A. arp
- B. traceroute
- C. nslookup
- D. ping

Correct Answer: A

The Address Resolution Protocol (ARP) is used to map a known IP address to a MAC address on a local network. If a technician needs to find the MAC address of a connecting router, they can use the ARP command.

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