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CompTIA Network+ Certification Exam Sample Questions (Q51-Q56):

NEW QUESTION # 51

Which of the following disaster recovery concepts is calculated by dividing the total hours of operation by the total number of units?

- A. MTTR
- B. RTO
- C. RPO
- D. MTBF

Answer: D

Explanation:

Introduction to Disaster Recovery Concepts:

Disaster recovery involves strategies and measures to ensure business continuity and data recovery in the event of a disaster.

Mean Time Between Failures (MTBF):

MTBF is a reliability metric used to predict the time between failures of a system during operation. It is calculated by dividing the total operational time by the number of failures.

Formula: $MTBF = \frac{\text{Total Operational Time}}{\text{Number of Failures}}$ MTBF=Number of FailuresTotal Operational Time This metric helps in understanding the reliability and expected lifespan

of systems and components.

Example Calculation:

If a server operates for 1000 hours and experiences 2 failures, the MTBF is: $MTBF = \frac{1000 \text{ hours}}{2} = 500 \text{ hours}$

Explanation of the Options:

- A. MTTR (Mean Time to Repair): The average time required to repair a system after a failure.
- B. MTBF (Mean Time Between Failures): The correct answer, representing the average time between failures.
- C. RPO (Recovery Point Objective): The maximum acceptable amount of data loss measured in time.
- D. RTO (Recovery Time Objective): The target time set for the recovery of IT and business activities after a disaster.

Conclusion:

MTBF is a crucial metric in disaster recovery and system reliability, helping organizations plan maintenance and predict system performance.

Reference:

CompTIA Network+ guide explaining MTBF, MTTR, RPO, and RTO concepts and their calculations (see page Ref 10†How to Use Cisco Packet Tracer).

NEW QUESTION # 52

An organization has a security requirement that all network connections can be traced back to a user. A network administrator needs to identify a solution to implement on the wireless network.

Which of the following is the best solution?

- A. Enforcing wired equivalent protection
- B. Requiring the use of PSKs
- C. Configuring a captive portal for users
- **D. Implementing enterprise authentication**

Answer: D

Explanation:

Enterprise authentication (such as WPA2-Enterprise) utilizes unique credentials for each user, typically integrating with an authentication server like RADIUS. This allows for tracking and logging user activity, ensuring that all connections can be traced back to individual users. PSKs (Pre-Shared Keys) are shared among users and do not provide individual accountability. Captive portals can identify users but are less secure than enterprise authentication, and Wired Equivalent Privacy (WEP) is outdated and not recommended for security purposes.

NEW QUESTION # 53

Which of the following internal routing protocols is best characterized as having fast convergence and being loop-free?

- **A. OSPF**
- B. BGP
- C. RIP
- D. STP

Answer: A

Explanation:

The correct answer is OSPF (Open Shortest Path First). OSPF is a link-state routing protocol known for its fast convergence and use of the Dijkstra algorithm to calculate the shortest loop-free path. It efficiently scales to large enterprise networks and avoids routing loops by maintaining a complete topology map.

A). BGP is primarily an external routing protocol used between ISPs, not internal.

B). STP is not a routing protocol; it prevents loops at Layer 2.

D). RIP is an older distance-vector protocol with slower convergence and a maximum hop limit of 15.

OSPF's design makes it the preferred internal gateway protocol (IGP) for medium-to-large organizations requiring speed and loop-free reliability.

References (CompTIA Network+ N10-009):

Domain: Networking Concepts - IGP, OSPF, routing protocols.

NEW QUESTION # 54

A network administrator installs wireless access points (APs) inside an industrial warehouse. A wireless survey shows a large amount of electromagnetic interference. Which of the following cable types should the administrator use to connect the APs to the switch?

- A. UTP
- **B. STP**
- C. Multimode
- D. Single-mode

Answer: B

Explanation:

The correct answer is STP (Shielded Twisted Pair). According to the CompTIA Network+ N10-009 objectives, environments with high levels of electromagnetic interference (EMI)-such as industrial warehouses with heavy machinery, motors, and electrical equipment-require additional protection at the physical layer to maintain signal integrity.

STP cabling includes shielding around the twisted copper pairs that helps block external electromagnetic signals from interfering with data transmission. This shielding significantly reduces crosstalk and EMI, making STP far more suitable than UTP (Unshielded Twisted Pair) in electrically noisy environments. UTP lacks this shielding and is more prone to signal degradation under such conditions.

While fiber-optic cabling (multimode or single-mode) is completely immune to EMI, it is typically not used to directly connect wireless APs in most enterprise deployments. Wireless access points commonly rely on copper Ethernet connections to support Power over Ethernet (PoE), which supplies both data and electrical power over the same cable. Fiber does not natively support PoE, making it impractical for directly powering APs without additional equipment.

The Network+ objectives emphasize selecting appropriate cabling based on environmental factors and operational requirements. In this scenario, STP provides the optimal balance of EMI resistance, Ethernet compatibility, and PoE support, making it the best choice for connecting APs in an industrial warehouse.

NEW QUESTION # 55

Which of the following concepts describes the idea of housing different customers in the same public cloud data center?

- A. Scalability
- **B. Multitenancy**
- C. Hybrid cloud
- D. Elasticity

Answer: B

Explanation:

Comprehensive and Detailed Explanation (aligned to N10-009):

Multitenancy is a cloud concept where multiple customers share the same physical resources (servers, storage, and networks) but remain logically separated for security and privacy.

A). Elasticity is auto-scaling resources.

B). Hybrid cloud combines private and public resources.

C). Scalability is the ability to grow resources but doesn't imply multiple customers.

References (CompTIA Network+ N10-009):

Domain: Networking Concepts - Cloud computing models, multitenancy in public cloud.

NEW QUESTION # 56

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