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| **1.** | **A customer is considering a multipurpose device to create a home network. Which three devices are usually integrated into a multipurpose network device? (Choose three.)**  *Ein Kunde überlegt sich ein Mehrzweck-Gerät, mit einem Heimnetzwerk zu erstellen. Welche drei Geräte sind in der Regel in einen Netzwerk integriert? (Wählen Sie drei Antworten.)* |
| ➀ | web server |
| ➁ | print server |
| ➂ | switch |
| ➃ | router |
| ➄ | wireless access point |
| ➅ | email server |

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| **2.** | **A company adds a few refurbished computers to a network. The company finds, however, that the refurbished computers perform significantly worse than the original networked computers do. The original computers performed much faster with applications that required the transfer of data over the network. What should the company technicians do?**  *Ein Unternehmen fügt ein paar gebrauchte Computer zu einem Netzwerk hinzu. Das Unternehmen stellt jedoch fest, dass die gebrauchten Computer deutlich schlechter sind als die originalen vernetzten Computer. Die originalen Computer führen viel schneller Anwendungen aus, da sie die Übertragung von Daten über das Netzwerk benötigen. Was sollten Techniker aus dem Unternehmen tun?* |
| ➀ | Check if the gateway address is correct. |
| ➁ | Check if subnet mask is correct. |
| ➂ | Check if the refurbished computers are using a VPN. |
| ➃ | Check if the network interface cards in the refurbished computers are limited to 10 Mb/s. |

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| **3.** | **Which three factors are reasons for a company to choose a client/server model for a network instead of peer-to-peer? (Choose three.)**  *Welche drei Faktoren sind Gründe für ein Unternehmen, ein Client / Server-Modell für ein Netzwerk zu wählen anstelle von Peer-to-Peer? (Wählen Sie drei Antworten.)* |
| ➀ | All employees passed a strict background check as part of the corporate hiring practices. |
| ➁ | The users need a central database to store inventory and sales information. |
| ➂ | Each user understands how to safely share files across a network. |
| ➃ | The data gathered by the employees is critical and should be backed up on a regular basis. |
| ➄ | The company network requires secure access to confidential information. |
| ➅ | The network is small with fewer than eight users. |

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| **4.** | **What is an example of network maintenance?**  *Was ist ein Beispiel für Netzwerkwartung?* |
| ➀ | |  | | --- | |  | |  | |  | |  |   immediately turning off a network device if the network device is making an unusual sound |
| ➁ | not doing preventive maintenance regularly if the maintenance interrupts network activity |
| ➂ | educating users on IT policies and procedures |
| ➃ | using cable supports to identify the devices to which the cables are connected |

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| **5.** | **Which statement describes the logical topology for a LAN?**  *Welche Aussage beschreibt die logische Topologie für LAN?* |
| ➀ | |  | | --- | | It lists the number of computers, routers, and switches on the LAN. | |  | |  | |  | |  | |
| ➁ | It defines how computers connect to a LAN. |
| ➂ | It defines how computers connect to a LAN. |
| ➃ | It describes how computers access the LAN medium. |

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| **6.** | **When is a dial-up connection used to connect to an Internet provider?**  *Wann wird eine DFÜ-Verbindung verwendet, um einen Internet-Provider zu verbinden?* |
| ➀ | |  | | --- | | when a digital connection is provided using ISDN | |  | |  | |  | |
| ➁ | when a cellular telephone provides the service |
| ➂ | when a high-speed connection is provided over a cable TV network |
| ➃ | when a regular telephone line is used |

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| **7.** | **A user installs a new gigabit NIC in a PC.  The user notices that the data transfer rate is much slower than expected.  What should the user do to fix the problem?**  *Ein Benutzer installiert eine neue Gigabit-Netzwerkkarte in einem PC. Der Benutzer bemerkt, dass die Datenübertragungsrate wesentlich langsamer ist als erwartet. Was sollte der Anwender tun, um das Problem zu beheben?* |
| ➀ | |  | | --- | | Disable sleep mode | |  | |  | |  | |
| ➁ | Disable hibernation mode. |
| ➂ | Change the value assigned to the NIC wake-on-LAN setting. |
| ➃ | Change the NIC duplex setting from half duplex to full duplex. |

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| **8.** | **When would a printer be considered a network host?**  *Wann würde ein Drucker einen Netzwerk-Host haben?* |
| ➀ | when it is connected to a laptop |
| ➁ | |  | | --- | |  | |  | |  | |  |   when it is connected to a switch |
| ➂ | when it is connected to a PC |
| ➃ | when it is connected to a workstation |

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| **9.** | **Which three layers of the OSI model map to the application layer of the TCP/IP model? (Choose three.)**  *Welche drei Schichten des OSI-Modells Karte der Anwendungsschicht des TCP / IP-Modell sind es? (Wählen Sie drei Antworten.)* |
| ➀ | |  | | --- | |  | |  |   transport |
| ➁ | |  | | --- | |  | |  | |  | |  |   application |
| ➂ | |  | | --- | |  |   data link |
| ➃ | |  | | --- | |  |   physical |
| ➄ | session |
| ➅ | network |
| ➆ | presentation |

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| **10.** | **Which type of connection to the Internet is capable of the fastest transfer rates?**  *Welche Art der Verbindung mit dem Internet ist in der Lage die schnellste Übertragungsrate zu erzeugen?* |
| ➀ | |  | | --- | |  | |  | |  | |  |   ISDN PRI |
| ➁ | cable |
| ➂ | ISDN BRI |
| ➃ | dial-up |

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| **11.** | **What is a characteristic of the UDP protocol?**  *Was ist ein Merkmal des UDP-Protokolls?* |
| ➀ | |  | | --- | |  | |  | |  | |  |   error correction |
| ➁ | end-to-end establishment before delivery |
| ➂ | low overhead |
| ➃ | guaranteed delivery |

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| **12.** | **A technician is troubleshooting a problem where the user claims access to the Internet is not working, but there was access to the Internet the day before. Upon investigation, the technician determines that the user cannot access the network printer in the office either. The network printer is on the same network as the computer. The computer has 169.254.100.88 assigned as an IP address. What is the most likely problem?**  *Ein Techniker ist dabei ein Problem beheben, wo der Benutzer behauptet, dass der Zugang zum Internet nicht funktioniert, aber der Zugang war am Tag zuvor vorhanden. Nach einer Untersuchung erkennt der Techniker, dass der Benutzer auch keinen Zugriff auf den Netzwerkdrucker im Büro hat. Der Netzwerkdrucker ist im selben Netzwerk wie der Computer. Der Computer hat 169.254.100.88 als IP-Adresse zugewiesen bekommen. Was ist wahrscheinlich das Problem?* |
| ➀ | |  | | --- | |  | |  | |  | |  |   The router that connects this network to other networks is down. |
| ➁ | The computer cannot communicate with a DHCP server. |
| ➂ | The IP default gateway on the computer is incorrect. |
| ➃ | The network interface card driver needs to be updated. |

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| **13.** | **Which technology would be recommended for a business that requires workers to access the Internet while visiting customers at many different locations?**  *Welche Technologie wäre für ein Unternehmen, dass die Arbeitnehmer den Zugang zum Internet während des Besuchs Kunden an vielen verschiedenen Orten erfordert empfohlen?* |
| ➀ | |  | | --- | | ADSL | |  | |  | |  | |  | |  | |  | |  | |
| ➁ | VPN |
| ➂ | ISDN |
| ➃ | cellular |

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| **14.** | **Which two characteristics describe Ethernet technology? (Choose two.)**  *Welche zwei Eigenschaften beschreiben Ethernet-Technologie? (Wählen Sie zwei.)* |
| ➀ | |  | | --- | |  | |  | |  | |  | |  |   It uses a ring topology. |
| ➁ | It is supported by IEEE 802.5 standards. |
| ➂ | It uses the CSMA/CD access control method. |
| ➃ | It typically uses an average of 16 Mb/s for data transfer rates. |
| ➄ | |  | | --- | |  | |  |   It is supported by IEEE 802.3 standards. |

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| **15.** | **What would be a disadvantage of configuring a wireless router or access point to operate only in accordance with the 802.11g protocol standard?**  *Was wäre ein Nachteil der Konfiguration eines Wireless-Router oder Access Point für den Betrieb nur in Übereinstimmung mit dem Standard 802.11g-Protokoll?* |
| ➀ | 802.11a wireless devices will not be able to connect to the wireless network. |
| ➁ | The 802.11g standard does not support advanced network security features. |
| ➂ | Using only 802.11g will cause multiple SSIDs to be broadcast. |
| ➃ | |  | | --- | | The 802.11g standard does not support static IP addressing. | |  | |  | |  | |

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| **16.** | **The 802.11g standard does not support static IP addressing.**  **Which network device makes forwarding decisions based on the destination MAC address that is contained in the frame?**  *Der Standard -802.11g unterstützt nicht die statische IP-Adressierung. Welches Netzwerk leitet die Entscheidungen über die Ziel-MAC-Adresse weiter, die im Rahmen enthalten sind?* |
| ➀ | repeater |
| ➁ | switch |
| ➂ | hub |
| ➃ | |  | | --- | |  | |  | |  | |  |   router |

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| **17.** | **Which technology is most often used to connect devices to a PAN?**  *Welche Technologie wird häufig verwendet, um Geräte mit PAN zu verbinden?* |
| ➀ | fiber optic cabling |
| ➁ | coaxial cabling |
| ➂ | Bluetooth |
| ➃ | IEEE 802.11n wireless |

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| **18.** | **What is the maximum segment length that is specified by the 1000BASE-T standard?**  *Was ist die maximale Segmentlänge, die durch die 1000BASE-T-Standard angegeben ist?* |
| ➀ | 984 ft (300 m) |
| ➁ | |  | | --- | | 607 ft (185 m) | |  | |  | |  | |
| ➂ | 1640 ft (500 m) |
| ➃ | 3280 ft (1000 m) |
| ➄ | 328 ft (100 m) |

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| **19.** | **What is identified by the 100 in the 100BASE-TX standard?**  *Was bezeichnet die 100 in der 100BASE-TX-Standard?* |
| ➀ | |  | | --- | | the maximum bandwidth in Mb/s | |  | |  | |  | |  | |
| ➁ | |  | | --- | |  | |  | |  | |  | |  |   the series number of the standard |
| ➂ | the maximum cable distance in meters |
| ➃ | |  | | --- | | the maximum number of network nodes | |  | |  | |

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| **20.** | **A user can print to a printer that is on the same network, but the traffic of the user cannot reach the Internet. What is a possible cause of the problem?**  *Ein Benutzer kann einen Drucker, der auf demselben Netzwerk ist, die Datenmenge des Internets nicht erreichen. Was ist eine mögliche Ursache des Problems?* |
| ➀ | |  | | --- | |  | |  | |  | |  |   The PC default gateway address is missing or incorrect. |
| ➁ | The network cable connected to the user PC is faulty. |
| ➂ | The NIC on the PC is faulty. |
| ➃ | The PC has an incorrect IP address. |

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| **21.** | **ABC Company requires preventive maintenance for all local network cabling once a year. Which task should be included in the preventive maintenance program?**  *Einmal im Jahr fordert ABC Company vorübergehende Wartung für alle lokalen Netzwerkverkabelungen. Welche Aufgabe sollte in der vorübergehenden Instandhaltung aufgenommen werden?* |
| ➀ | Replace all labeling on the cables. |
| ➁ | Replace all cable supports to prevent loose attachment points. |
| ➂ | |  | | --- | |  |   Disconnect and reconnect all patch cables. |
| ➃ | |  | | --- | |  | |  | |  | |  |   Inspect all patch cables for breaks. |

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| **22.** | **What benefit is provided by a computer data network?**  *Welchen Nutzen wird durch einen Computer-Datennetz zur Verfügung gestellt?* |
| ➀ | |  | | --- | |  | |  | |  | |  | |  |   simplified troubleshooting |
| ➁ | resource sharing |
| ➂ | |  | | --- | |  |   increased security |
| ➃ | |  | | --- | | decentralized administration | |  | |  | |  | |

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| **23.** | **A device has an IPv6 address listed as 2001:0DB8:75a3:0214:0607:1234:aa10:ba01. What is the interface ID of the device?**  *Ein Gerät besitzt eine IPv6-Adresse als 2001:0 DB8 aufgelistet: 75a3: 0214:0607:1234: aa10: BA01. Was ist die Schnittstellen-ID des Geräts?* |
| ➀ | |  | | --- | | 2001:0DB8:75a3 | |  | |  | |  | |  | |
| ➁ | ba01 |
| ➂ | |  | | --- | |  |   0607:1234:aa10:ba01 |
| ➃ | |  | | --- | | 2001:0DB8 | |  | |  | |  | |