



N10-007

Network+

A Success Guide to Prepare-  
CompTIA Network+

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# Introduction to N10-007 Exam on CompTIA Network+

Use this quick start guide to collect all the information about CompTIA Network+ (N10-007) Certification exam. This study guide provides a list of objectives and resources that will help you prepare for items on the N10-007 CompTIA Network+ exam. The Sample Questions will help you identify the type and difficulty level of the questions and the Practice Exams will make you familiar with the format and environment of an exam. You should refer this guide carefully before attempting your actual CompTIA N+ certification exam.

The CompTIA Network+ certification is mainly targeted to those candidates who want to build their career in Networking domain. The CompTIA Certified Network+ Professional exam verifies that the candidate possesses the fundamental knowledge and proven skills in the area of CompTIA N+.

## CompTIA N10-007 Certification Details:

Exam Name	CompTIA Certified Network+ Professional
Exam Code	N10-007
Exam Price	\$302 (USD)
Duration	90 min
Number of Questions	90
Passing Score	720 / 900
Schedule Exam	<a href="#">Pearson VUE</a>
Sample Questions	<a href="#">CompTIA Network+ Sample Questions</a>
Practice Exam	<a href="#">CompTIA N10-007 Certification Practice Exam</a>

## CompTIA N10-007 Exam Syllabus:

Topic	Details
<b>Networking Concepts 23%</b>	
Explain the purposes and uses of ports and protocols.	1. Protocols and ports <ol style="list-style-type: none"> <li>1. SSH 22</li> <li>2. DNS 53</li> <li>3. SMTP 25</li> <li>4. SFTP 22</li> <li>5. FTP 20, 21</li> <li>6. TFTP 69</li> <li>7. TELNET 23</li> <li>8. DHCP 67, 68</li> <li>9. HTTP 80</li> <li>10. HTTPS 443</li> <li>11. SNMP 161</li> <li>12. RDP 3389</li> <li>13. NTP 123</li> <li>14. SIP 5060, 5061</li> <li>15. SMB445</li> <li>16. POP 110</li> <li>17. IMAP 143</li> <li>18. LDAP 389</li> <li>19. LDAPS 636</li> <li>20. H.323 1720</li> </ol>
	2. Protocol types <ol style="list-style-type: none"> <li>1. ICMP</li> <li>2. UDP</li> <li>3. TCP</li> <li>4. IP</li> </ol>
	3. Connection-oriented vs. connectionless <ol style="list-style-type: none"> <li>1. Layer 1 – Physical</li> <li>2. Layer 2 – Data link</li> <li>3. Layer 3 – Network</li> <li>4. Layer 4 – Transport</li> <li>5. Layer 5 – Session</li> <li>6. Layer 6 – Presentation</li> <li>7. Layer 7 – Application</li> </ol>
Explain devices, applications, protocols and services at their appropriate OSI layers.	
Explain the concepts and characteristics of routing and switching.	1. Properties of network traffic <ol style="list-style-type: none"> <li>1. Broadcast domains</li> <li>2. CSMA/CD</li> <li>3. CSMA/CA</li> <li>4. Collision domains</li> <li>5. Protocol data units</li> </ol>

Topic	Details
	<ul style="list-style-type: none"> <li>6. MTU</li> <li>7. Broadcast</li> <li>8. Multicast</li> <li>9. Unicast</li> </ul> <p>2. Segmentation and interface properties</p> <ul style="list-style-type: none"> <li>1. VLANs</li> <li>2. Trunking (802.1q)</li> <li>3. Tagging and untagging ports</li> <li>4. Port mirroring</li> <li>5. Switching loops/spanning tree</li> <li>6. PoE and PoE+ (802.3af, 802.3at)</li> <li>7. DMZ</li> <li>8. MAC address table</li> <li>9. ARP table</li> </ul> <p>3. Routing</p> <ul style="list-style-type: none"> <li>1. Routing protocols (IPv4 and IPv6) <ul style="list-style-type: none"> <li>Distance-vector routing protocols</li> <li>RIP</li> <li>EIGRP</li> <li>Link-state routing protocols</li> <li>OSPF</li> <li>Hybrid</li> <li>BGP</li> </ul> </li> <li>2. Routing types <ul style="list-style-type: none"> <li>Static</li> <li>Dynamic</li> <li>Default</li> </ul> </li> </ul> <p>4. IPv6 concepts</p> <ul style="list-style-type: none"> <li>1. Addressing</li> <li>2. Tunneling</li> <li>3. Dual stack</li> <li>4. Router advertisement</li> <li>5. Neighbor discovery</li> </ul> <p>5. Performance concepts</p>

Topic	Details
	<ol style="list-style-type: none"> <li>1. Traffic shaping</li> <li>2. QoS</li> <li>3. Diffserv</li> <li>4. CoS</li> <li>6. NAT/PAT</li> <li>7. Port forwarding</li> <li>8. Access control list</li> <li>9. Distributed switching</li> <li>10. Packet-switched vs. circuit switched network</li> <li>11. Software-defined networking</li> </ol>
<p>Given a scenario, configure the appropriate IP addressing components.</p>	<ol style="list-style-type: none"> <li>1. Private vs. public</li> <li>2. Loopback and reserved</li> <li>3. Default gateway</li> <li>4. Virtual IP</li> <li>5. Subnet mask</li> <li>6. Subnetting               <ol style="list-style-type: none"> <li>1. Classful                   <p>Classes A, B, C, D, and E</p> </li> <li>2. Classless                   <p>VLSM CIDR notation (IPv4 vs. IPv6)</p> </li> </ol> </li> <li>7. Address assignments               <ol style="list-style-type: none"> <li>1. DHCP</li> <li>2. DHCPv6</li> <li>3. Static</li> <li>4. APIPA</li> <li>5. EUI64</li> <li>6. IP reservations</li> </ol> </li> </ol>
<p>Compare and contrast the characteristics of network topologies, types and technologies.</p>	<ol style="list-style-type: none"> <li>1. Wired topologies               <ol style="list-style-type: none"> <li>1. Logical vs. physical</li> <li>2. Star</li> <li>3. Ring</li> <li>4. Mesh</li> <li>5. Bus</li> </ol> </li> <li>2. Wireless topologies               <ol style="list-style-type: none"> <li>1. Mesh</li> </ol> </li> </ol>

Topic	Details
	<ul style="list-style-type: none"> <li>2. Ad hoc</li> <li>3. Infrastructure</li> </ul> <p>3. Types</p> <ul style="list-style-type: none"> <li>1. LAN</li> <li>2. WLAN</li> <li>3. MAN</li> <li>4. WAN</li> <li>5. CAN</li> <li>6. SAN</li> <li>7. PAN</li> </ul> <p>4. Technologies that facilitate the Internet of Things (IoT)</p> <ul style="list-style-type: none"> <li>1. Z-Wave</li> <li>2. Ant+</li> <li>3. Bluetooth</li> <li>4. NFC</li> <li>5. IR</li> <li>6. RFID</li> <li>7. 802.11</li> </ul>
<p>Given a scenario, implement the appropriate wireless technologies and configurations.</p>	<ul style="list-style-type: none"> <li>1. 802.11 standards               <ul style="list-style-type: none"> <li>1. a</li> <li>2. b</li> <li>3. g</li> <li>4. n</li> <li>5. ac</li> </ul> </li> <li>2. Cellular               <ul style="list-style-type: none"> <li>1. GSM</li> <li>2. TDMA</li> <li>3. CDMA</li> </ul> </li> <li>3. Frequencies               <ul style="list-style-type: none"> <li>1. 2.4GHz</li> <li>2. 5.0GHz</li> </ul> </li> <li>4. Speed and distance requirements</li> <li>5. Channel bandwidth</li> <li>6. Channel bonding</li> <li>7. MIMO/MU-MIMO</li> </ul>

Topic	Details
Summarize cloud concepts and their purposes.	<p>8. Unidirectional/omnidirectiona</p> <p>9. Site surveys</p> <p>1. Types of services</p> <ol style="list-style-type: none"> <li>1. SaaS</li> <li>2. PaaS</li> <li>3. IaaS</li> </ol> <p>2. Cloud delivery models</p> <ol style="list-style-type: none"> <li>1. Private</li> <li>2. Public</li> <li>3. Hybrid</li> </ol> <p>3. Connectivity methods</p> <p>4. Security implications/considerations</p> <p>5. Relationship between local and cloud resources</p>
Explain the functions of network services.	<p>1. DNS service</p> <ol style="list-style-type: none"> <li>1. Record types A, AAAA  TXT (SPF, DKIM) SRV MX  CNAME NS PTR</li> <li>2. Internal vs. external DNS</li> <li>3. Third-party/cloud-hosted DNS</li> <li>4. Hierarchy</li> <li>5. Forward vs. reverse zone</li> </ol> <p>2. DHCP service</p> <ol style="list-style-type: none"> <li>1. MAC reservations</li> <li>2. Pools</li> <li>3. IP exclusions</li> <li>4. Scope options</li> <li>5. Lease time</li> <li>6. TTL</li> <li>7. DHCP relay/IP helper</li> </ol> <p>3. NTP</p> <p>4. IPAM</p>



Topic	Details
<p><b>Infrastructure 18%</b></p> <p>Given a scenario, deploy the appropriate cabling solution.</p>	<ol style="list-style-type: none"> <li>1. Media types               <ol style="list-style-type: none"> <li>1. Copper                   <ul style="list-style-type: none"> <li>UTP</li> <li>STP</li> <li>Coaxial</li> </ul> </li> <li>2. Fiber                   <ul style="list-style-type: none"> <li>Single-mode</li> <li>Multimode</li> </ul> </li> </ol> </li> <li>2. Plenum vs. PVC</li> <li>3. Connector types               <ol style="list-style-type: none"> <li>1. Copper                   <ul style="list-style-type: none"> <li>RJ-45</li> <li>RJ-11</li> <li>BNC</li> <li>DB-9</li> <li>DB-25</li> <li>F-type</li> </ul> </li> <li>2. Fiber                   <ul style="list-style-type: none"> <li>LC</li> <li>ST</li> </ul> </li> <li>3. SC                   <ul style="list-style-type: none"> <li>APC</li> <li>UPC</li> </ul> </li> <li>4. MTR</li> </ol> </li> <li>4. Transceivers               <ol style="list-style-type: none"> <li>1. SFP</li> <li>2. GBIC</li> <li>3. SFP+</li> <li>4. QSFP</li> <li>5. Characteristics of fiber transceivers</li> </ol> </li> </ol>

Topic	Details
	<p>Bidirectional Duplex</p> <p>5. Termination points</p> <ol style="list-style-type: none"> <li>1. 66 block</li> <li>2. 110 block</li> <li>3. Patch panel</li> <li>4. Fiber distribution panel</li> </ol> <p>6. Copper cable standards</p> <ol style="list-style-type: none"> <li>1. Cat 3</li> <li>2. Cat 5</li> <li>3. Cat 5e</li> <li>4. Cat 6</li> <li>5. Cat 6e</li> <li>6. Cat 7</li> <li>7. RG-6</li> <li>8. RG-59</li> </ol> <p>7. Copper termination standards</p> <ol style="list-style-type: none"> <li>1. TIA/EIA 568a</li> <li>2. TIA/EIA 568b</li> <li>3. Crossover</li> <li>4. Straight-through</li> </ol> <p>8. Ethernet deployment standards</p> <ol style="list-style-type: none"> <li>1. 100BaseT</li> <li>2. 1000BaseT</li> <li>3. 1000BaseLX</li> <li>4. 1000BaseSX</li> <li>5. 10GBaseT</li> </ol>
<p>Given a scenario, determine the appropriate placement of networking devices on a network and install/configure them.</p>	<ol style="list-style-type: none"> <li>1. Firewall</li> <li>2. Router</li> <li>3. Switch</li> <li>4. Hub</li> <li>5. Bridge</li> <li>6. Modems</li> <li>7. Wireless access point</li> <li>8. Media converter</li> <li>9. Wireless range extender</li> <li>10. VoIP endpoint</li> </ol>

Topic	Details
<p>Explain the purposes and use cases for advanced networking devices.</p>	<ol style="list-style-type: none"> <li>1. Multilayer switch</li> <li>2. Wireless controller</li> <li>3. Load balancer</li> <li>4. IDS/IPS</li> <li>5. Proxy server</li> <li>6. VPN concentrator</li> <li>7. AAA/RADIUS server</li> <li>8. UTM appliance</li> <li>9. NGFW/Layer 7 firewall</li> <li>10. VoIP PBX</li> <li>11. VoIP gateway</li> <li>12. Content filter</li> </ol>
<p>Explain the purposes of virtualization and network storage technologies.</p>	<ol style="list-style-type: none"> <li>1. Virtual networking components               <ol style="list-style-type: none"> <li>1. Virtual switch</li> <li>2. Virtual firewall</li> <li>3. Virtual NIC</li> <li>4. Virtual router</li> <li>5. Hypervisor</li> </ol> </li> <li>2. Network storage types               <ol style="list-style-type: none"> <li>1. NAS</li> <li>2. SAN</li> </ol> </li> <li>3. Connection type               <ol style="list-style-type: none"> <li>1. FCoE</li> <li>2. Fibre Channel</li> <li>3. iSCSI</li> <li>4. InfiniBand</li> </ol> </li> <li>4. Jumbo frame</li> </ol>
<p>Compare and contrast WAN technologies.</p>	<ol style="list-style-type: none"> <li>1. Service type               <ol style="list-style-type: none"> <li>1. ISDN</li> <li>2. T1/T3</li> <li>3. E1/E3</li> <li>4. OC-3 – OC-192</li> <li>5. DSL</li> <li>6. Metropolitan Ethernet</li> <li>7. Cable broadband</li> <li>8. Dial-up</li> <li>9. PRI</li> </ol> </li> <li>2. Transmission mediums</li> </ol>

Topic	Details
	<ol style="list-style-type: none"> <li>1. Satellite</li> <li>2. Copper</li> <li>3. Fiber</li> <li>4. Wireless</li> </ol> <p>3. Characteristics of service</p> <ol style="list-style-type: none"> <li>1. MPLS</li> <li>2. ATM</li> <li>3. Frame relay</li> <li>4. PPPoE</li> <li>5. PPP</li> <li>6. DMVPN</li> <li>7. SIP trunk</li> </ol> <p>4. Termination</p> <ol style="list-style-type: none"> <li>1. Demarcation point</li> <li>2. CSU/DSU</li> <li>3. Smart jack</li> </ol>
<b>Network Operations 17%</b>	
<p>Given a scenario, use appropriate documentation and diagrams to manage the network.</p>	<ol style="list-style-type: none"> <li>1. Diagram symbols</li> <li>2. Standard operating procedures/ work instructions</li> <li>3. Logical vs. physical diagrams</li> <li>4. Rack diagrams</li> <li>5. Change management documentation</li> <li>6. Wiring and port locations</li> <li>7. IDF/MDF documentation</li> <li>8. Labeling</li> <li>9. Network configuration and performance baselines</li> <li>10. Inventory management</li> </ol>
<p>Compare and contrast business continuity and disaster recovery concepts.</p>	<ol style="list-style-type: none"> <li>1. Availability concepts               <ol style="list-style-type: none"> <li>1. Fault tolerance</li> <li>2. High availability</li> <li>3. Load balancing</li> <li>4. NIC teaming</li> <li>5. Port aggregation</li> <li>6. Clustering</li> <li>7. Power management                   <ul style="list-style-type: none"> <li>Battery backups/UPS</li> <li>Power generators</li> <li>Dual power supplies</li> <li>Redundant circuits</li> </ul> </li> </ol> </li> <li>2. Recovery</li> </ol>

Topic	Details
	<ol style="list-style-type: none"> <li>1. Cold sites</li> <li>2. Warm sites</li> <li>3. Hot sites</li> <li>4. Backups               <ul style="list-style-type: none"> <li>Full</li> <li>Differential</li> <li>Incrementa</li> </ul> </li> <li>5. Snapshots</li> </ol> <ol style="list-style-type: none"> <li>3. MTTR</li> <li>4. MTBF</li> <li>5. SLA requirements</li> </ol>
<p>Explain common scanning, monitoring and patching processes and summarize their expected outputs.</p>	<ol style="list-style-type: none"> <li>1. Processes           <ol style="list-style-type: none"> <li>1. Log reviewing</li> <li>2. Port scanning</li> <li>3. Vulnerability scanning</li> <li>4. Patch management               <ul style="list-style-type: none"> <li>Rollback</li> </ul> </li> <li>5. Reviewing baselines</li> <li>6. Packet/traffic analysis</li> </ol> </li> <li>2. Event management           <ol style="list-style-type: none"> <li>1. Notifications</li> <li>2. Alerts</li> <li>3. SIEM</li> </ol> </li> <li>3. SNMP monitors           <ol style="list-style-type: none"> <li>1. MIB</li> </ol> </li> <li>4. Metrics           <ol style="list-style-type: none"> <li>1. Error rate</li> <li>2. Utilization</li> <li>3. Packet drops</li> <li>4. Bandwidth/throughput</li> </ol> </li> </ol>
<p>Given a scenario, use remote access methods.</p>	<ol style="list-style-type: none"> <li>1. VPN           <ol style="list-style-type: none"> <li>1. IPSec</li> <li>2. SSL/TLS/DTLS</li> <li>3. Site-to-site</li> <li>4. Client-to-site</li> </ol> </li> </ol>

Topic	Details
	<ul style="list-style-type: none"> <li>2. RDP</li> <li>3. SSH</li> <li>4. VNC</li> <li>5. Telnet</li> <li>6. HTTPS/management URL</li> <li>7. Remote file access                             <ul style="list-style-type: none"> <li>1. FTP/FTPS</li> <li>2. SFTP</li> <li>3. TFTP</li> </ul> </li> <li>8. Out-of-band management                             <ul style="list-style-type: none"> <li>1. Modem</li> <li>2. Console router</li> </ul> </li> </ul>
Identify policies and best practices.	<ul style="list-style-type: none"> <li>1. Privileged user agreement</li> <li>2. Password policy</li> <li>3. On-boarding/off-boarding procedures</li> <li>4. Licensing restrictions</li> <li>5. International export controls</li> <li>6. Data loss prevention</li> <li>7. Remote access policies</li> <li>8. Incident response policies</li> <li>9. BYOD</li> <li>10. AUP</li> <li>11. NDA</li> <li>12. System life cycle                             <ul style="list-style-type: none"> <li>1. Asset disposal</li> </ul> </li> <li>13. Safety procedures and policies</li> </ul>
<b>Network Security 20%</b>	
Summarize the purposes of physical security devices.	<ul style="list-style-type: none"> <li>1. Detection                             <ul style="list-style-type: none"> <li>1. Motion detection</li> <li>2. Video surveillance</li> <li>3. Asset tracking tags</li> <li>4. Tamper detection</li> </ul> </li> <li>2. Prevention                             <ul style="list-style-type: none"> <li>1. Badges</li> <li>2. Biometrics</li> <li>3. Smart cards</li> <li>4. Key fob</li> </ul> </li> </ul>

Topic	Details
<p>Explain authentication and access controls.</p>	<p>5. Locks</p> <p>1. Authorization, authentication and accounting</p> <ol style="list-style-type: none"> <li>1. RADIUS</li> <li>2. TACACS+</li> <li>3. Kerberos</li> <li>4. Single sign-on</li> <li>5. Local authentication</li> <li>6. LDAP</li> <li>7. Certificates</li> <li>8. Auditing and logging</li> </ol> <p>2. Multifactor authentication</p> <ol style="list-style-type: none"> <li>1. Something you know</li> <li>2. Something you have</li> <li>3. Something you are</li> <li>4. Somewhere you are</li> <li>5. Something you do</li> </ol> <p>3. Access control</p> <ol style="list-style-type: none"> <li>1. 802.1x</li> <li>2. NAC</li> <li>3. Port security</li> <li>4. MAC filtering</li> <li>5. Captive portal</li> <li>6. Access control lists</li> </ol>
<p>Given a scenario, secure a basic wireless network.</p>	<ol style="list-style-type: none"> <li>1. WPA</li> <li>2. WPA2</li> <li>3. TKIP-RC4</li> <li>4. CCMP-AES</li> <li>5. Authentication and authorization</li> </ol> <ol style="list-style-type: none"> <li>1. EAP <ul style="list-style-type: none"> <li>PEAP</li> <li>EAP-FAST</li> <li>EAP-TLS</li> </ul> </li> <li>2. Shared or open</li> <li>3. Preshared key</li> <li>4. MAC filtering</li> </ol>

Topic	Details
	6. Geofencing
Summarize common networking attacks.	1. DoS <ul style="list-style-type: none"> <li>1. Reflective</li> <li>2. Amplified</li> <li>3. Distributed</li> </ul> 2. Social engineering 3. Insider threat 4. Logic bomb 5. Rogue access point 6. Evil twin 7. War-driving 8. Phishing 9. Ransomware 10. DNS poisoning 11. ARP poisoning 12. Spoofing 13. Deauthentication 14. Brute force 15. VLAN hopping 16. Man-in-the-middle 17. Exploits vs. vulnerabilities
Given a scenario, implement network device hardening.	1. Changing default credentials 2. Avoiding common passwords 3. Upgrading firmware 4. Patching and updates 5. File hashing 6. Disabling unnecessary services 7. Using secure protocols 8. Generating new keys 9. Disabling unused ports <ul style="list-style-type: none"> <li>1. IP ports</li> <li>2. Device ports (physical and virtual)</li> </ul>
Explain common mitigation techniques and their purposes.	1. Signature management 2. Device hardening 3. Change native VLAN 4. Switch port protection <ul style="list-style-type: none"> <li>1. Spanning tree</li> <li>2. Flood guard</li> <li>3. BPDU guard</li> <li>4. Root guard</li> <li>5. DHCP snooping</li> </ul>



Topic	Details
	5. Network segmentation <ol style="list-style-type: none"> <li>1. DMZ</li> <li>2. VLAN</li> </ol> 6. Privileged user account 7. File integrity monitoring 8. Role separation 9. Restricting access via ACLs 10. Honeypot/honeynet 11. Penetration testing
<b>Network Troubleshooting and Tools 22%</b>	
Explain the network troubleshooting methodology.	<ol style="list-style-type: none"> <li>1. Identify the problem               <ol style="list-style-type: none"> <li>1. Gather information</li> <li>2. Duplicate the problem, if possible</li> <li>3. Question users</li> <li>4. Identify symptoms</li> <li>5. Determine if anything has changed</li> <li>6. Approach multiple problems individually</li> </ol> </li> <li>2. Establish a theory of probable cause               <ol style="list-style-type: none"> <li>1. Question the obvious</li> <li>2. Consider multiple approaches</li> </ol> <p style="margin-left: 40px;">Top-to-bottom/bottom-to-top OSI model Divide and conquer</p> </li> <li>3. Test the theory to determine the cause               <ol style="list-style-type: none"> <li>1. Once the theory is confirmed, determine the next steps to resolve the problem</li> <li>2. If the theory is not confirmed, reestablish a new theory or escalate</li> </ol> </li> <li>4. Establish a plan of action to resolve the problem and identify potential effects</li> <li>5. Implement the solution or escalate as necessary</li> <li>6. Verify full system functionality and, if applicable, implement preventive measures</li> <li>7. Document findings, actions, and outcomes</li> </ol>
Given a scenario, use the appropriate tool.	<ol style="list-style-type: none"> <li>1. Hardware tools Crimper               <ol style="list-style-type: none"> <li>1. Cable tester</li> <li>2. Punchdown tool</li> </ol> </li> </ol>

Topic	Details
	<ol style="list-style-type: none"> <li>3. OTDR</li> <li>4. Light meter</li> <li>5. Tone generator</li> <li>6. Loopback adapter</li> <li>7. Multimeter</li> <li>8. Spectrum analyzer</li> </ol> <p>2. Software tools</p> <ol style="list-style-type: none"> <li>1. Packet sniffer</li> <li>2. Port scanner</li> <li>3. Protocol analyzer</li> <li>4. WiFi analyzer</li> <li>5. Bandwidth speed tester</li> <li>6. Command line               <ul style="list-style-type: none"> <li>ping</li> <li>tracert, traceroute</li> <li>nslookup</li> <li>ipconfig</li> <li>ifconfig</li> <li>iptables</li> <li>netstat</li> <li>tcpdump</li> <li>pathping</li> <li>nmap</li> <li>route</li> <li>arp</li> <li>dig</li> </ul> </li> </ol>
<p>Given a scenario, troubleshoot common wired connectivity and performance issues.</p>	<ol style="list-style-type: none"> <li>1. Attenuation</li> <li>2. Latency</li> <li>3. Jitter</li> <li>4. Crosstalk</li> <li>5. EMI</li> <li>6. Open/short</li> <li>7. Incorrect pin-out</li> <li>8. Incorrect cable type</li> <li>9. Bad port</li> <li>10. Transceiver mismatch</li> <li>11. TX/RX reverse</li> <li>12. Duplex/speed mismatch</li> <li>13. Damaged cables</li> <li>14. Bent pins</li> </ol>

Topic	Details
	<ul style="list-style-type: none"> <li>15. Bottlenecks</li> <li>16. VLAN mismatch</li> <li>17. Network connection LED status indicators</li> </ul>
Given a scenario, troubleshoot common wireless connectivity and performance issues.	<ul style="list-style-type: none"> <li>1. Reflection</li> <li>2. Refraction</li> <li>3. Absorption</li> <li>4. Latency</li> <li>5. Jitter</li> <li>6. Attenuation</li> <li>7. Incorrect antenna type</li> <li>8. Interference</li> <li>9. Incorrect antenna placement</li> <li>10. Channel overlap</li> <li>11. Overcapacity</li> <li>12. Distance limitations</li> <li>13. Frequency mismatch</li> <li>14. Wrong SSID</li> <li>15. Wrong passphrase</li> <li>16. Security type mismatch</li> <li>17. Power levels</li> <li>18. Signal-to-noise ratio</li> </ul>
Given a scenario, troubleshoot common network service issues.	<ul style="list-style-type: none"> <li>1. Names not resolving</li> <li>2. Incorrect gateway</li> <li>3. Incorrect netmask</li> <li>4. Duplicate IP addresses</li> <li>5. Duplicate MAC addresses</li> <li>6. Expired IP address</li> <li>7. Rogue DHCP server</li> <li>8. Untrusted SSL certificate</li> <li>9. Incorrect time</li> <li>10. Exhausted DHCP scope</li> <li>11. Blocked TCP/UDP ports</li> <li>12. Incorrect host-based firewall settings</li> <li>13. Incorrect ACL settings</li> <li>14. Unresponsive service</li> <li>15. Hardware failure</li> </ul>

## N10-007 Sample Questions:

**01. You experience connectivity problems with your SOHO network. What can you change in an attempt to solve this problem?**

- a) Shorten the SSID.
- b) Remove all encryption.
- c) Lower the transfer rate.
- d) Raise the transfer rate.

**02. An incident response policy often ends with which phase?**

- a) Prepare
- b) Contain
- c) Review
- d) Eradicate

**03. What is the term used for the number of hops necessary to reach a node?**

- a) Jump list
- b) Link stops
- c) Connections
- d) Hop count

**04. If a network has the five nines of availability, how much downtime does it experience per year?**

- a) 30 seconds
- b) 5 minutes
- c) 12 minutes
- d) 26 minutes

**05. A broken copper strand in a circuit is known as which of the following?**

- a) Short
- b) Impedance
- c) Open
- d) Split pair

**06. Which network infrastructure device primarily makes forwarding decisions based on Layer 2 MAC addresses?**

- a) Router
- b) Switch
- c) Hub
- d) Multilayer switch

**07. From the following list, identify the detection methods commonly used by IPS sensors.**

(Choose three.)

- a) Signature based
- b) Distribution based
- c) Policy based
- d) Behavior based

**08. By default, the automatic update feature on most modern operating systems is**

- a) Turned on
- b) Disabled
- c) Set to manual
- d) Ineffective

**09. Windowing is provided at what layer of the OSI reference model?**

- a) Data link layer
- b) Network layer
- c) Physical layer
- d) Transport layer

**10. How many channels on an E1 circuit are available for voice, video, or data?**

- a) 30
- b) 23
- c) 24
- d) 32

**Answers to N10-007 Exam Questions:**

Question: 01 Answer: c	Question: 02 Answer: c	Question: 03 Answer: d	Question: 04 Answer: b	Question: 05 Answer: c
Question: 06 Answer: b	Question: 07 Answer: a, c, d	Question: 08 Answer: a	Question: 09 Answer: d	Question: 10 Answer: a

Note: If you find any typo or data entry error in these sample questions, we request you to update us by commenting on this page or write an email on [feedback@edusum.com](mailto:feedback@edusum.com)