

CERT-PASS

Cisco CCNA 200-301

Free Practice Questions Preview

Here are 35 sample questions to help you get started. Unlock the full exam to access all 1100+ questions with detailed explanations.

Question 1 : 1.0 Network Fundamentals

How should the address 10.44.7.9 be classified?

- A. loopback address
- B. multicast address
- C. private IPv4 address
- D. IPv6 link-local address

Answer: C

Difficulty: Easy | Skill score: 24/100. 10.44.7.9 is correctly classified as a private IPv4 address. The strongest distractor is IPv6 link-local address, but it fails because it does not match the observed requirement.

Question 2 : 1.0 Network Fundamentals

Which component is primarily responsible for the following requirement: forward packets between IP networks and select paths using a routing table?

- A. router
- B. intrusion prevention system
- C. wireless access point
- D. Layer 2 switch

Answer: A

Difficulty: Easy | Skill score: 24/100. router is the component designed to forward packets between IP networks and select paths using a routing table. The strongest distractor is Layer 2 switch, but it fails because it does not match the observed requirement.

Question 3 : 2.0 Network Access

A network implementation detail is being reviewed. lightweight APs are centrally controlled and managed. Which description is most accurate?

- A. autonomous-only AP design
- B. spine-leaf routed underlay

C. controller-based wireless architecture

D. static NAT pool

Answer: C

Difficulty: Easy | Skill score: 24/100. The scenario corresponds to a controller-based wireless architecture. The strongest distractor is autonomous-only AP design, but it fails because it does not match the observed requirement.

Question 4 : 2.0 Network Access

A troubleshooting ticket is being analyzed. lightweight APs are centrally controlled and managed. Which description is most accurate?

A. spine-leaf routed underlay

B. static NAT pool

C. controller-based wireless architecture

D. autonomous-only AP design

Answer: C

Difficulty: Easy | Skill score: 24/100. The scenario corresponds to a controller-based wireless architecture. The strongest distractor is autonomous-only AP design, but it fails because it does not match the observed requirement.

Question 5 : 3.0 IP Connectivity

A configuration requirement must be validated. two routers participate in a first-hop redundancy group. Which statement best describes the solution?

A. Hosts use the virtual IP address as their default gateway

B. Hosts use the STP bridge ID

C. Hosts use a syslog facility

D. Hosts use an AP radio MAC

Answer: A

Difficulty: Easy | Skill score: 24/100. Hosts use the virtual IP address as their default gateway. First-hop redundancy improves default-gateway availability. The strongest distractor is Hosts use the STP bridge ID, but it fails because it does not match the observed requirement.

Question 6 : 3.0 IP Connectivity

A deployment decision is being checked. two routers participate in a first-hop redundancy group. Which statement best describes the solution?

A. Hosts use an AP radio MAC

B. Hosts use the virtual IP address as their default gateway

- C. Hosts use a syslog facility
- D. Hosts use the STP bridge ID

Answer: B

Difficulty: Easy | Skill score: 24/100. Hosts use the virtual IP address as their default gateway. First-hop redundancy improves default-gateway availability. The strongest distractor is Hosts use the STP bridge ID, but it fails because it does not match the observed requirement.

Question 7 : 3.0 IP Connectivity

A network implementation detail is being reviewed. two routers participate in a first-hop redundancy group. Which statement best describes the solution?

- A. Hosts use the virtual IP address as their default gateway**
- B. Hosts use a syslog facility
- C. Hosts use the STP bridge ID
- D. Hosts use an AP radio MAC

Answer: A

Difficulty: Easy | Skill score: 24/100. Hosts use the virtual IP address as their default gateway. First-hop redundancy improves default-gateway availability. The strongest distractor is Hosts use the STP bridge ID, but it fails because it does not match the observed requirement.

Question 8 : 4.0 IP Services

A simple UDP-based file transfer is needed for a device image in a controlled environment. Which protocol is the best match?

- A. SNMP
- B. FTP
- C. SSH
- D. TFTP**

Answer: D

Difficulty: Easy | Skill score: 24/100. TFTP matches the requested file-transfer characteristics. The strongest distractor is FTP, but it fails because it does not match the observed requirement.

Question 9 : 5.0 Security Fundamentals

A firewall rule is added to reduce exposure to an identified risk. Which security concept applies?

- A. exploit code
- B. mitigation technique**
- C. vulnerability

D. threat

Answer: B

Difficulty: Easy | Skill score: 24/100. The scenario describes a mitigation technique. The strongest distractor is vulnerability, but it fails because it does not match the observed requirement.

Question 10 : 5.0 Security Fundamentals

An unpatched software defect could be abused by an attacker. Which security concept applies?

- A. threat actor
- B. mitigation
- C. accounting record
- D. vulnerability**

Answer: D

Difficulty: Easy | Skill score: 24/100. The scenario describes a vulnerability. The strongest distractor is threat actor, but it fails because it does not match the observed requirement.

Question 11 : 6.0 Automation and Programmability

Applications communicate with a controller to request network services. Which term best matches the scenario?

- A. southbound API
- B. Ethernet CRC
- C. console cable
- D. northbound API**

Answer: D

Difficulty: Easy | Skill score: 24/100. The correct term is northbound API. The strongest distractor is southbound API, but it fails because it does not match the observed requirement.

Question 12 : 1.0 Network Fundamentals

How should the address 10.44.7.9 be classified? Focus on the primary requirement.

- A. IPv6 link-local address
- B. multicast address
- C. loopback address
- D. private IPv4 address**

Answer: D

Difficulty: Easy | Skill score: 25/100. 10.44.7.9 is correctly classified as a private IPv4 address. The strongest distractor

is IPv6 link-local address, but it fails because it does not match the observed requirement.

Question 13 : 1.0 Network Fundamentals

How should the address 10.44.7.9 be classified?

- A. IPv6 link-local address
- B. loopback address
- C. multicast address
- D. private IPv4 address**

Answer: D

Difficulty: Easy | Skill score: 25/100. 10.44.7.9 is correctly classified as a private IPv4 address. The strongest distractor is IPv6 link-local address, but it fails because it does not match the observed requirement.

Question 14 : 1.0 Network Fundamentals

How should the address 10.44.7.9 be classified?

- A. IPv6 link-local address
- B. private IPv4 address**
- C. multicast address
- D. loopback address

Answer: B

Difficulty: Easy | Skill score: 25/100. 10.44.7.9 is correctly classified as a private IPv4 address. The strongest distractor is IPv6 link-local address, but it fails because it does not match the observed requirement.

Question 15 : 1.0 Network Fundamentals

Which component is primarily responsible for the following requirement: inspect traffic and block malicious activity based on security policy?

- A. Layer 2 access switch
- B. endpoint DHCP client
- C. wireless controller
- D. next-generation firewall**

Answer: D

Difficulty: Easy | Skill score: 25/100. next-generation firewall is the component designed to inspect traffic and block malicious activity based on security policy. The strongest distractor is Layer 2 access switch, but it fails because it does not match the observed requirement.

Question 16 : 2.0 Network Access

A campus access-layer change is being prepared. an IP phone and a connected workstation use GigabitEthernet1/0/24; data must be in VLAN 50 and voice in VLAN 150. Which interface configuration is most appropriate?

- A. switchport mode trunk and switchport allowed vlan 150
- B. switchport trunk native vlan 50
- C. ip address 10.50.0.1 255.255.255.0
- D. switchport access vlan 50 and switchport voice vlan 150**

Answer: D

Difficulty: Easy | Skill score: 25/100. The port must use an access VLAN assignment that matches the endpoint design. The strongest distractor is switchport trunk native vlan 50, but it fails because it does not match the observed requirement.

Question 17 : 2.0 Network Access

A network implementation detail is being reviewed. lightweight APs are centrally controlled and managed. Which description is most accurate?

- A. static NAT pool
- B. autonomous-only AP design
- C. controller-based wireless architecture**
- D. spine-leaf routed underlay

Answer: C

Difficulty: Easy | Skill score: 25/100. The scenario corresponds to a controller-based wireless architecture. The strongest distractor is autonomous-only AP design, but it fails because it does not match the observed requirement.

Question 18 : 2.0 Network Access

A switchport configuration must be corrected. two switches must carry VLANs 100, 110, and 120 over one link. What is the correct action?

- A. Configure both ends as routed ports
- B. Configure a single access VLAN on both ends
- C. Configure DHCP snooping only
- D. Configure an 802.1Q trunk on both ends**

Answer: D

Difficulty: Easy | Skill score: 25/100. Configure an 802.1Q trunk on both ends is required for proper 802.1Q operation. The strongest distractor is Configure both ends as routed ports, but it fails because it does not match the observed requirement.

Question 19 : 2.0 Network Access

An interswitch link is being validated. two parallel links must form an EtherChannel using the standards-based negotiation protocol. Which statement is correct?

- A. Configure both links as unrelated access ports
- B. Use HSRP active/standby
- C. Use PAGP desirable/auto only
- D. Use LACP with active/passive or active/active modes**

Answer: D

Difficulty: Easy | Skill score: 25/100. Use LACP with active/passive or active/active modes. LACP requires compatible and consistent channel configuration. The strongest distractor is Use PAGP desirable/auto only, but it fails because it does not match the observed requirement.

Question 20 : 3.0 IP Connectivity

A deployment decision is being checked. the router needs a static IPv4 route for only host 203.0.113.68 through next hop 192.0.2.118. Which command is correct?

- A. ip route 203.0.113.68 0.0.0.0 192.0.2.118
- B. ip host 203.0.113.68 192.0.2.118
- C. ip route 203.0.113.68 255.255.255.255 192.0.2.118**
- D. ip route 0.0.0.0 255.255.255.255 192.0.2.118

Answer: C

Difficulty: Easy | Skill score: 25/100. A /32 mask, 255.255.255.255, creates a host route for 203.0.113.68. The strongest distractor is ip route 203.0.113.68 0.0.0.0 192.0.2.118, but it fails because it does not match the observed requirement.

Question 21 : 3.0 IP Connectivity

A deployment decision is being checked. two routers participate in a first-hop redundancy group. Which statement best describes the solution?

- A. Hosts use the STP bridge ID
- B. Hosts use the virtual IP address as their default gateway**
- C. Hosts use a syslog facility
- D. Hosts use an AP radio MAC

Answer: B

Difficulty: Easy | Skill score: 25/100. Hosts use the virtual IP address as their default gateway. First-hop redundancy improves default-gateway availability. The strongest distractor is Hosts use the STP bridge ID, but it fails because it does not match the observed requirement.

Question 22 : 3.0 IP Connectivity

A network implementation detail is being reviewed. two routers participate in a first-hop redundancy group. Which statement best describes the solution?

- A. Hosts use the STP bridge ID
- B. Hosts use the virtual IP address as their default gateway**
- C. Hosts use a syslog facility
- D. Hosts use an AP radio MAC

Answer: B

Difficulty: Easy | Skill score: 25/100. Hosts use the virtual IP address as their default gateway. First-hop redundancy improves default-gateway availability. The strongest distractor is Hosts use the STP bridge ID, but it fails because it does not match the observed requirement.

Question 23 : 3.0 IP Connectivity

A troubleshooting ticket is being analyzed. the router needs a static IPv4 route for only host 203.0.113.135 through next hop 192.0.2.173. Which command is correct?

- A. ip route 203.0.113.135 0.0.0.0 192.0.2.173
- B. ip host 203.0.113.135 192.0.2.173
- C. ip route 203.0.113.135 255.255.255.255 192.0.2.173**
- D. ip route 0.0.0.0 255.255.255.255 192.0.2.173

Answer: C

Difficulty: Easy | Skill score: 25/100. A /32 mask, 255.255.255.255, creates a host route for 203.0.113.135. The strongest distractor is ip route 203.0.113.135 0.0.0.0 192.0.2.173, but it fails because it does not match the observed requirement.

Question 24 : 4.0 IP Services

A simple UDP-based file transfer is needed for a device image in a controlled environment. Which protocol is the best match?

- A. SSH
- B. FTP
- C. TFTP**
- D. SNMP

Answer: C

Difficulty: Easy | Skill score: 25/100. TFTP matches the requested file-transfer characteristics. The strongest distractor is FTP, but it fails because it does not match the observed requirement.

Question 25 : 4.0 IP Services

A simple UDP-based file transfer is needed for a device image in a controlled environment. Which protocol is the best match?

- A. SSH
- B. TFTP**
- C. FTP
- D. SNMP

Answer: B

Difficulty: Easy | Skill score: 25/100. TFTP matches the requested file-transfer characteristics. The strongest distractor is FTP, but it fails because it does not match the observed requirement.

Question 26 : 5.0 Security Fundamentals

A firewall rule is added to reduce exposure to an identified risk. Which security concept applies?

- A. mitigation technique**
- B. exploit code
- C. vulnerability
- D. threat

Answer: A

Difficulty: Easy | Skill score: 25/100. The scenario describes a mitigation technique. The strongest distractor is vulnerability, but it fails because it does not match the observed requirement.

Question 27 : 5.0 Security Fundamentals

An unpatched software defect could be abused by an attacker. Which security concept applies?

- A. mitigation
- B. threat actor
- C. accounting record
- D. vulnerability**

Answer: D

Difficulty: Easy | Skill score: 25/100. The scenario describes a vulnerability. The strongest distractor is threat actor, but it fails because it does not match the observed requirement.

Question 28 : 5.0 Security Fundamentals

An unpatched software defect could be abused by an attacker. Which security concept applies?

A. vulnerability

B. threat actor

C. mitigation

D. accounting record

Answer: A

Difficulty: Easy | Skill score: 25/100. The scenario describes a vulnerability. The strongest distractor is threat actor, but it fails because it does not match the observed requirement.

Question 29 : 6.0 Automation and Programmability

A controller communicates with infrastructure devices. Which term best matches the scenario?

A. syslog facility

B. southbound API

C. northbound API

D. SSH host key only

Answer: B

Difficulty: Easy | Skill score: 25/100. The correct term is southbound API. The strongest distractor is northbound API, but it fails because it does not match the observed requirement.

Question 30 : 6.0 Automation and Programmability

Applications communicate with a controller to request network services. Which term best matches the scenario?

A. Ethernet CRC

B. console cable

C. northbound API

D. southbound API

Answer: C

Difficulty: Easy | Skill score: 25/100. The correct term is northbound API. The strongest distractor is southbound API, but it fails because it does not match the observed requirement.

Question 31 : 1.0 Network Fundamentals

How should the address 10.44.7.9 be classified? Focus on the primary requirement.

A. multicast address

B. private IPv4 address

C. IPv6 link-local address

D. loopback address

Answer: B

Difficulty: Easy | Skill score: 26/100. 10.44.7.9 is correctly classified as a private IPv4 address. The strongest distractor is IPv6 link-local address, but it fails because it does not match the observed requirement.

Question 32 : 1.0 Network Fundamentals

How should the address 10.44.7.9 be classified?

A. private IPv4 address

B. loopback address

C. multicast address

D. IPv6 link-local address

Answer: A

Difficulty: Easy | Skill score: 26/100. 10.44.7.9 is correctly classified as a private IPv4 address. The strongest distractor is IPv6 link-local address, but it fails because it does not match the observed requirement.

Question 33 : 1.0 Network Fundamentals

Which component is primarily responsible for the following requirement: forward packets between IP networks and select paths using a routing table?

A. Layer 2 switch

B. wireless access point

C. router

D. intrusion prevention system

Answer: C

Difficulty: Easy | Skill score: 26/100. router is the component designed to forward packets between IP networks and select paths using a routing table. The strongest distractor is Layer 2 switch, but it fails because it does not match the observed requirement.

Question 34 : 1.0 Network Fundamentals

Which component is primarily responsible for the following requirement: supply electrical power to a supported endpoint over the same Ethernet cabling used for data?

A. router loopback interface

B. DNS server

C. WLC management interface

D. PoE-capable switch port

Answer: D

Difficulty: Easy | Skill score: 26/100. PoE-capable switch port is the component designed to supply electrical power to a supported endpoint over the same Ethernet cabling used for data. The strongest distractor is DNS server, but it fails because it does not match the observed requirement.

Question 35 : 2.0 Network Access

A campus access-layer change is being prepared. an IP phone and a connected workstation use GigabitEthernet1/0/10; data must be in VLAN 60 and voice in VLAN 160. Which interface configuration is most appropriate?

- A. ip address 10.60.0.1 255.255.255.0
- B. switchport mode trunk and switchport allowed vlan 160
- C. switchport access vlan 60 and switchport voice vlan 160**
- D. switchport trunk native vlan 60

Answer: C

Difficulty: Easy | Skill score: 26/100. The port must use an access VLAN assignment that matches the endpoint design. The strongest distractor is switchport trunk native vlan 60, but it fails because it does not match the observed requirement.

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