

NOTE: When a single question covers more than one topic, if you answered the question correctly place a checkmark in the "Answered Correctly" box for each relevant topic. The same applies if you answer a question incorrectly.

For example, if a single question covered topics 1.1.a and 1.1.e and you answered that question correctly, you would place a checkmark in the "Answered Correctly" boxes for both 1.1.a and 1.1.e

Exam Topics	Answered Correctly	Answered Incorrectly
1.1 Explain the role and function of network components		
1.1.a Routers		
1.1.b Layer 2 and Layer 3 switches		
1.1.c Next-generation firewalls and IPS		
1.1.d Access points		
1.1.e Controllers (Cisco DNA Center and WLC)		
1.1.f Endpoints		
1.1.g Servers		
1.1.h PoE		
OSI Model		
TCP/IP Model		
General Network Modeling		
1.2 Describe characteristics of network topology architectures		
1.2.a Two-tier		
1.2.b Three-tier		
1.2.c Spine-leaf		
1.2.d WAN		
1.2.e Small office/home office (SOHO)		
1.2.f On-premise and cloud		
WAN protocols and functionality		
1.3 Compare physical interface and cabling types		
1.3.a Single-mode fiber, multimode fiber, copper		
1.3.b Connections (Ethernet shared media and point-to-point)		
1.4 Identify interface and cable issues (collisions, errors, mismatch duplex, and/or speed)		
1.5 Compare TCP to UDP		
1.6 Configure and verify IPv4 addressing and subnetting		
1.7 Describe the need for private IPv4 addressing		
1.8 Configure and verify IPv6 addressing and prefix		
1.9 Describe IPv6 address types		
1.9.a Unicast (global, unique local, and link local)		
1.9.b Anycast		
1.9.c Multicast		
1.9.d Modified EUI 64		
1.10 Verify IP parameters for Client OS (Windows, Mac OS, Linux)		
1.11 Describe wireless principles		
1.11.a Nonoverlapping Wi-Fi channels		
1.11.b SSID		
1.11.c RF		
1.11.d Encryption		

1.12 Explain virtualization fundamentals (server virtualization, containers, and VRFs)		
1.13 Describe switching concepts		
1.14 MAC learning and aging [1.13.a in OCG]		
1.15 Frame switching [1.13.b in OCG]		
1.16 Frame flooding [1.13.c in OCG]		
1.17 MAC address table [1.13.d in OCG]		