624. Which statement is true?

A. An IPv6 address is 64 b long and is represented as hexadecimal characters.

B. An IPv6 address is 32 b long and is represented as decimal digits.

C. An IPv6 address is 128 b long and is represented as hexadecimal characters.

D. An IPv6 address is 128 b long and is represented as decimal digits.

**Answer:** C

53. How many bits are contained in each field of an IPv6 address?

A. 24

B. 4

C. 8

D. 16

**Answer:** D

631. As a CCNA candidate, you must have a firm understanding of the IPv6 address structure. Refer to IPv6 address, could you tell me how many bits are included in each filed?

A. 24

B. 4

C. 3

D. 16

**Answer:** D

52. Which option is a valid IPv6 address?

A. 2001:0000:130F::099a::12a

B. 2002:7654:A1AD:61:81AF:CCC1

C. FEC0:ABCD:WXYZ:0067::2A4

D. 2004:1:25A4:886F::1

**Answer:** D

576. Which IPv6 address is valid?

A. 2031:0:130F::9C0:876A:130B

B. 2001:0DB8:0000:130F:0000:0000:08GC:140B

C. 2001:0DB8:0:130H::87C:140B

D. 2031::130F::9C0:876A:130B

**Answer:** A

562. What is the alternative notation for the IPV6 address B514:82C3:0000:0000:0029:EC7A:0000:EC72?

A. B514:82C3:0029::EC7A:0000:EC72

B. B514:82C3:0029:EC7A:EC72

C. B514:82C3::0029:EC7A:0:EC72

D. B514:82C3::0029:EC7A:EC72

**Answer:** C

517. Which of these represents an IPv6 link-local address?

A. FE08::280e:611:a:f14f:3d69

B. FE81::280f:512b:e14f:3d69

C. FE80::380e:611a:e14f:3d69

D. FEFE:0345:5f1b::e14d:3d69

**Answer:** C

64. Which statement about IPv6 is true?

A. Addresses are not hierarchical and are assigned at random.

B. Only one IPv6 address can exist on a given interface.

C. There are 2.7 billion addresses available.

D. Broadcasts have been eliminated and replaced with multicasts.

**Answer:** D

568. Which command enables IPv6 forwarding on a cisco router?

A. ipv6 host

B. ipv6 unicast-routing

C. ipv6 local

D. ipv6 neighbor

**Answer:** B

491. Which command can you use to manually assign a static IPV6 address to a muter interface?

A. ipv6 address PREFIX\_1::1/64

B. ipv6 autoconfig 2001:db8:2222:7272::72/64

C. ipv6 autoconfig

D. ipv6 address 2001:db8:2222:7272::72/64

**Answer:** D

373. How is an EUI-64 format interface ID created from a 48-bit MAC address?

A. by appending 0xFF to the MAC address

B. by prefixing the MAC address with 0xFFEE

C. by prefixing the MAC address with 0xFF and appending 0xFF to it

D. by inserting 0xFFFE between the upper three bytes and the lower three bytes of the MAC address

E. by prefixing the MAC address with 0xF and inserting 0xFafter each of its first three bytes

**Answer:** D

62. Which term describes the process of encapsulating IPv6 packets inside IPv4 packets?

A. tunneling

B. hashing

C. routing

D. NAT

**Answer:** A

607. In which integration method is an IPV6 packet encapsulated within an IPV4 protocol?

A. proxy

B. dual-stack

C. tunneling

D. dot1q

**Answer:** C

246. Running both IPv4 and IPv6 on a router simultaneously is known as what?

A. 4to6 routing

B. 6to4 routing

C. binary routing

D. dual-stack routing

E. NextGen routing

**Answer:** D

51. What is known as "one-to-nearest" addressing in IPv6?

A. global unicast

B. anycast

C. multicast

D. unspecified address

**Answer:** B

484. Which IPV6 routing protocol uses multicast group FFO2::8 to send updates?

A. RIPng

B. OSPFv3

C. IS-IS for IPv6

D. static

**Answer:** C

510. Which IPV6 routing protocol uses multicast group FF02::9 to send updates?

A. RIPng

B. OSPFv3

C. static

D. IS-IS for IPv6

**Answer:** A

556. Which address is the IPV6 all-RIP-routers muticast group address that is used by RIPng as the destaion address?

A. FF02::A

B. FF05::101

C. FF02::9

D. FF02::6

**Answer:** C

654. Which name describes an IPV6 host-enable tunneling technique that uses IPV4 UDP, does not require dedicated gateway tunnels, and can pass through existing IPv4 NAT gateways?

A. dual stack

B. dynamic

C. Teredo

D. Manual 6to4

**Answer:** C