CNS TUT-5

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B11

Q2)

1. (avataar.com, dns1.avataar.com, NS)

(dns1. avataar.com, 172.119.12.40, A)

1. (avataar.com, 172.119.12.55, A)

(avataar.com, 172.119.12.56, A)

(www. avataar.com, avataar.com, CNAME)

(humonoid.avataar.com, 172.119.12.60, A)

Q3)

Yes, an organization can have the same alias name for both its Web server and   
its mail server. An MX resource record type contains the host name of the mail server.

Q4)

a. Local host contacts the local name server.

b. Local name server contacts the root server.

c. Root server contacts the authoritative server.

d. Authoritative server sends the resolved IP address.

e. Root server forwards the answer to the local name server.

f. Local name server forwards the answer to the host.

Q5)

a) The source port number is the first four hexadecimal digits (0045), which means that the source port number is 69.

b) The destination port number is the second four hexadecimal digits (DF00), which means that the destination port number is 57088

c) The third four hexadecimal digits (0058) defines the length of the whole UDP packet as 88 bytes.

d) The length of the data is the length of the whole packet minus the length of the header, or 88 – 8 = 80 bytes.

e) Since the source port number is 69 (well-known port), the packet is from the client to the server.

Q6)

1) Source port number:- (2 byte) -> 0532

2) Destination port number:- (2 byte) -> 0017

3) Sequence number:- 000000001 -> 1

4) Acknowledgement number:- 00000000 -> 0

5) Length of the header (4 bits) -> 5

6) Type of the segment -> 0X02

7) Window size -> 07FF