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Course: Computer Networks

Question 1

What is the destination port for the DNS query message? What is the source port of DNS response message?

SRC PORT: 60913

DST PORT: 53

Question 2

To what IP address is the DNS query message sent? Is this the IP address of your default local DNS server?

DNS Servers . . . . : 172.20.10.15

SRC: 172.20.43.51

DNS: 172.20.10.15

Yes both are same so the ip address is of local default DNS server

Question 3

Examine the DNS query message. What "Type" of DNS query is it? Does the query message contain any "answers"?

```
0... .... .... .... = Response: Message is a query
.000 0... .... .... = Opcode: Standard query (0)
.... ..0. .... .... = Truncated: Message is not truncated
.... ...1 .... .... = Recursion desired: Do query recursively
.... .... .0.. .... = Z: reserved (0)
.... .... ...0 .... = Non-authenticated data: Unacceptable
Questions: 1
Answer RRs: 0
Authority RRs: 0
Additional RRs: 0
Queries
   disc801.prod.do.dsp.mp.microsoft.com: type A, class IN
      Name: disc801.prod.do.dsp.mp.microsoft.com
      [Name Length: 36]
      [Label Count: 7]
      Type: A (1) (Host Address)
      Class: IN (0x0001)
   [Response In: 97]
```

Answer is 0 and type is A

Question 4

Examine the DNS response message. How many "answers" are provided? What do each of these answers contain?

```
.... .... 1... .... = Recursion available: Server can do recursive queries
.... .... .0.. .... = Z: reserved (0)
.... .... ..0. .... = Answer authenticated: Answer/authority portion was not auther
.... .... ...0 .... = Non-authenticated data: Unacceptable
.... .... .... 0000 = Reply code: No error (0)
Questions: 1
Answer RRs: 3
Authority RRs: 0
Additional RRs: 0
Queries
   disc801.prod.do.dsp.mp.microsoft.com: type A, class IN
      Name: disc801.prod.do.dsp.mp.microsoft.com
      [Name Length: 36]
      [Label Count: 7]
      Type: A (1) (Host Address)
      Class: IN (0x0001)
Answers
[Unsolicited: True]
```