

LAB TASK

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REG NO: SP23-BSE-050

CLASS: BSE-5B

SUBJECT: COMPUTER NETWORKS

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PART 1

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"?

```
.... = Response: Message is a query
    .000 0... = Opcode: Standard query (0)
    .... .. 0. .... = Truncated: Message is not truncated
    .... 1 .... = Recursion desired: Do query recursively
    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... - necui stoii avattabte. Jei vei caii uo i ecui stve quei tes
     .... = Z: reserved (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]
```

PART 2











