To be delivered Tuesday and Wednesday 10 and 11 April , print and fill in hand written.



Fill in the ip addresses where there is IP:

1-Y@idm sends an email to x@sodetel :

1. SMTP packet goes from Y@idm PC to SMTP.IDM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source Mac | Dest Mac | Source IP  | Dest IP | Source Port | Dest Port |
|  |  |  |  |  |  |

1. Then from SMTP.idm to SMTP.Sodetel : fill in the following: (note that you must organize them by numbering them .

SMTP packet

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source Mac | Dest Mac | Source IP  | Dest IP | Source Port | Dest Port |
|  |  |  |  |  |  |

Arp request Packet

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source Mac | Dest Mac | Who has IP  |  |  |  |
|  |  |  |  |  |  |

Arp reply Packet

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source Mac | Dest Mac | Who has IP |  |  |  |
|  |  |  |  |  |  |

Arp request packet

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source Mac | Dest Mac | Who has IP |  |  |  |
|  |  |  |  |  |  |

Arp reply packet

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source Mac | Dest Mac | Who has IP |  |  |  |
|  |  |  |  |  |  |

DNS Packet

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source Mac | Dest Mac | Source IP  | Dest IP | Source Port | Dest Port |
|  |  |  |  |  |  |

DNS reply packet

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source Mac | Dest Mac | Source IP  | Dest IP | Source Port | Dest Port |
|  |  |  |  |  |  |

Smtp reply packet

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source Mac | Dest Mac | Source IP  | Dest IP | Source Port | Dest Port |
|  |  |  |  |  |  |

1. The email now arrived at SMTP.sodetel , and them to POP.sodetel , what happens now ?
2. Assign an IP , SM , DG and an external DNS for PC5, also a real mac address.
3. PC5 sent a request to ftp://5.5.5.5

What will be the second packet coming out of PC5 :

1-an ARP packet

2-a DNS packet

3-an http packet

4-an ftp packet

 Justify below:

|  |
| --- |
|  |

1. Yahoo is replying fill in the below FTP reply packet

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source Mac | Dest Mac | Source IP  | Dest IP | Source Port | Dest Port |
|  |  |  |  |  |  |

1. The ftp reply packet is on R3 now :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source Mac | Dest Mac | Source IP  | Dest IP | Source Port | Dest Port |
|  |  |  |  |  |  |

1. How many collision domains exist in the first network (IDM), how many broadcast domains ?

|  |
| --- |
|  |