



foll mothing Table.

W.	N = 100		P ()
111	Destination.	Line	hop8
**	ALE!?		-
1	- IB	1B	11111
	10	1C	1
	21	IB	2
1	2 B	IB -	3
	20	IB	3
	2D	LIBA	1-41
,11	3 A	10	3
	3B	10	2
	HA	1c	3
	4B	1c	4
	4 C	10	1 H 1 1
	5A 5B	10	H
× .	50	1C 1B	5
	5 D	1c	
	5王	10	6 , 5

Today of 11 11

1 - e 1 1 1 day

to the the state of

in of 11 11 11 11 0

The souting is done hierarchically then:

The second of th			
Destination	Line	hops	- 4 5 .
1A	-	_	
1B	IB	1	
10	1c	1	
2	IB.	2	
3	10	2 2	
4	10	3	
5	10	4	
	₩,	No.	

Douco and explain In4 header Sigment? Type Price Total length. Verson Identification FF - Fragment 41set. The to Re Protocol Header Checkson II Source Iddress Destrution Iddisecs applians (o & more words) PV4 Heada: Vession Reld

- It keep track of Which Version of protocol the clatagram?
 Belong to:
- By inducting the Vestron in each datagram it Becomes

 possible to have the Transition Between Vestrons take years

 with some machines sunning the old Vestrons and others

 the new one.

Print Header IHL:

Since the header length is not constant, a field in the header IHL is provided to tell how long the header is in 32 bit words.

· H & H - 13st field.

- The Hinimum Value is 5 which Hears No options are
- The Haximom Value is 15 Wirth knots the header to 60 Bytes and this the Optional field to 40 Bytes.

The IP Botocol: Type of Savice:

- 44 dietinguish Behoven different Classes of Savice.
- · Valious Combinations of retrability and speed poemble
- 升及 6-时 棉树.
- Originally 6-Bit field Contained a three bit. Proceedence field and Three flags DIT, and R.
- · Precedence keld was proposity from o to 7.
- Three flag 3sts allow host to specify What it is Most cared Delay, Thoroughput, Reliability.

IP Botacol: Total length:

The Total length inchafes everything in the datagram both. header and data.

Maximom length & 651535 bytes.

· Af passent this appear kinst is tolerable But with futures grabit Networks larger datagrams may be Needed.

1-1-2

Draw and explain the Working of Simple Mail 11
Transfer protocol (SMTP)?

SMTP: protocol used for Sercling emails 1 it

apelates primarly at dient sever Hockel CommonRates

with email server to deliver Herrages.

Working :

Chent Initiation:
User Serd Email Via Their Email Client (Gmail etc).
They connect to SMIP Source.

SHIP Hardstake: Chent establisher Connection with SHIP Server Using TCP-post 25. SMIP responds with "220 OK" Hessage Signalising ready to accept mail.

Senkst Email in bomation:

Chent Sends HERLO & EHLO -followed by Ip Address/ Cloredon Name to Relentify Iself to Server. Server responds "250 ok" Herage.

Sercles Leapent Information

Cherit Send Senders email address Using HAIL FROM Command.

Scever responds " 250 ok" Hessage.

Chent Ends Regipent Email RCPT TO

Soviel responds "200 ok" Herrage to Ahnadelge Reclipent

Mersage Dita:

Clent Sends DATA Command to inclinate Leady to

Send Hessage body.

Scered repords with "354 Start mail Impet;

end with <CRLF> < CRLF> ". Signaling Body of High

18:11 follow.

Email Chart Sends the content of email to SHIP Server

Ending the Commonwakon:

Once The entire Message has been sent The Client ends with . & New Rine.

· Savel Yesponds 250 ok " Hessage Yecewed & goeved -far delivery.

Hal Defrey:

SMIP directly Send mail to Mccapient'S SMIP Sevel of Velays to Another Hail Server.

Server forward Hig to Another Server Server repeat Same Toroccus to ensure Message Yeaches to Yearpient.

Closing the Connection:

Client Sends the Quit to Close the Donedon.

Elle Vegjands "221 Bye". Connection Tempratal.

Chent (Sendin)	SHIP Sava
>HELD EHLO)>
← — — — - 250 OK 4	←
← 250 OK←	
	(Reápent Emáil) —> <
>DATA-	_
>Email (ready-fordate]
<₹50	
>Qu	T
	BIE <