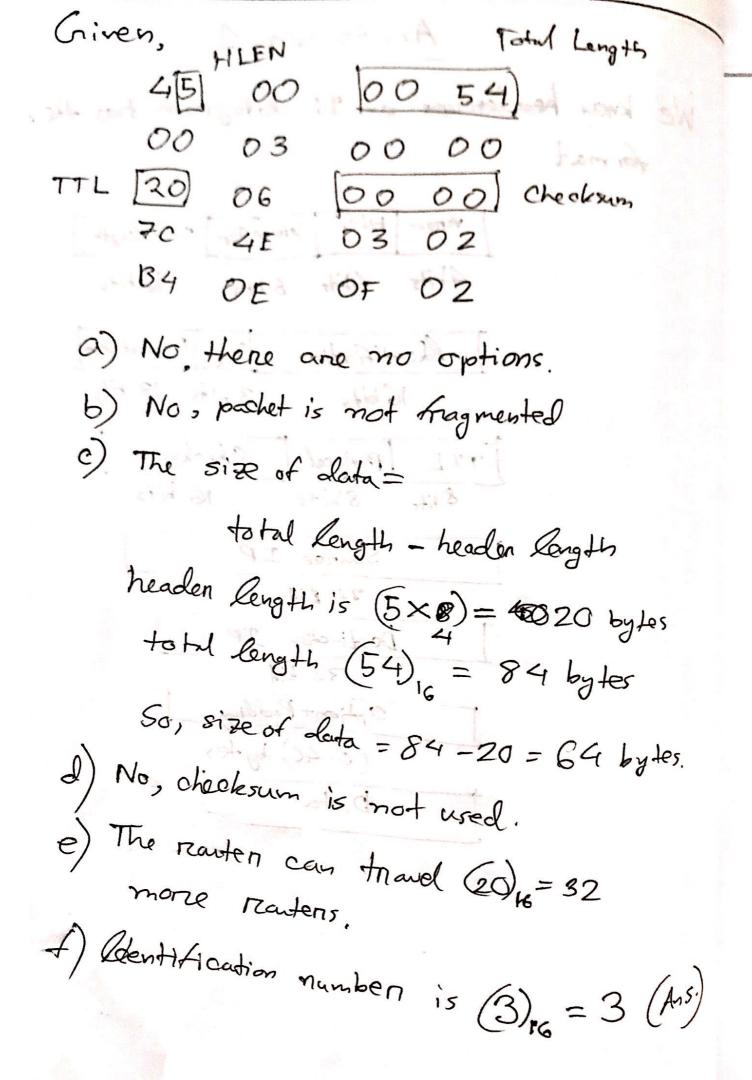
Ans. to Qno. 1

We know headen of an IP datagram has the tollowing

Che op som	00	001	30	50	The
	Vension	Hlen.	Service Type	Total den	844
	4 bits	4Litz	8 bits	16 6	45
300) le	ortification	on Willage	Fragment	Offset
boto	open men	6 bits	i +136	t= 13	bits
	77L 8 1/4	Proto C	al ch	ecksum	10
deposts	- मिराव्या		ee IP		Page 1
1026 1 ps	= (0)	7 32	Bi45	usern	
ented is	6 = 31	Destina 3	tion IP Z bid	holo-	
-1-1-3		Option	n+ Padding	2	
Court of the	13.2 - 14 6	(0-	40) by to	.2	1
	James 1.	-	a work	اعي ماي	1
25 :	الما المالية	the .	0 m	SOST L	T (

Month icada a Loca is (D) = 3 (A



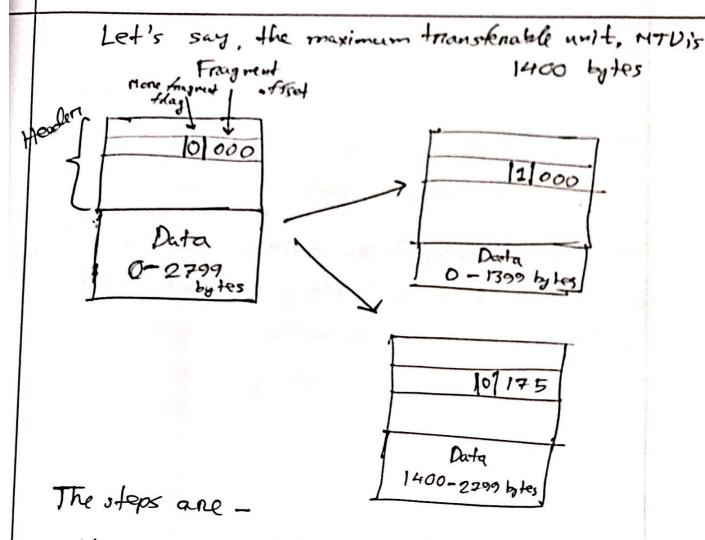
g) Sevice type is O.

It means normal service type.

Ansto Q.no. 2

The mutable part of headen is the option + padding field. This part is mutable and ear to from O to 40 tytes. It is used for testing and debugging.

Fragmentation and Reassembly a When a packet a packet is too long ite. data is too big then the packet is broken to smaller fragments by taking the same headen, changing fragment offset and more fragment bit and then dividing the data. When the packet is received all fragments are reassembled.



- i) First the Enheader is copied for tragmented framens and for I all tragments except last one, more that some flag is set to 1.
- ii) The length of the fragment is divided by 8 and is set in tragment offset of next fragment(s). Here K100/8 = 175 which is value in all the second packet's fragment offset.
- iii) Data is divided between the two tragments.

Fragment one has 1400 bytes which is equal to the one MTD.

iv) Continueing this process for all stragments, we set more flag of last magnest to D.

The receiver receives all magnests and combine

them by adding the data portions to using the tragment offset till it finds last tragment with more than 1.