Name: Suresh kumar

Roll No: 21F-9516

Subject: computer retwork

section: BS (SE) 6A

Assignment: Two

Object Size = 1,600,000 bils Average time = 1/2 = 16,000 000 4777 response segment fine = 3 bec Transmission rate = 54 mbps 5400000 0.02962

> B> Ab = 0.02962 x24 2 0.7104

Average internet delay = 3 Sec Fotal average sexponse time = 0,1022 + 3 = 3,1022 her

B Hit rate = 1 miles rate

Total respons time = 0.7 x 0,0022 + 0,2 (0. 1022 x 3) = 0.1002 Sec 1-0.3

A) overlag nekwork. is Therefore we co-tourousing overlas network has as model is Municipal of nickes (N): active peers in overday network 10: of edge (m). Potal rowder which TEP connection Pouse

is user headers like ionsent length or transapared empling SMTT & HTTP * SMTP : * コブア: is marks and wills a single period for the body message.

4TT does not use a cland alone character like SMTD

C) HTTP/2 is some + 4x3 bonnes are interleaved. + interleaved: * non-infecteared; & All 5200 video frames sent first without interleaning

bonnes simes weeded all three inages

			1	1	20
	0.,+	1000	100	1000	
		10000	10	1000	1
1 23	<i>v</i> ₃	60000	2	1000	1
		اره ه	100	100	1
1	- 0	1000	10	100	1
	50	5200	P	100	
-	10	(0	100	00	
	- 00	100	10	03	
	, o	500	12	10	
	Peen to	elient	n	3	

* Eardwidth & 361 = 2000 Mbps

is For 300 1969s video will be a less smoothly because 300 < 2000 to For 1000 maps video will be a less smooth than 300 1969s it may buffered soo klops the video will buffer because 2000 > 2000.

C. 5

N 210

Serves upload rate (U) = 30 (16PC => 30,000 MbPs

Peer download rate (Ri) = 2 MbPs

Peer upload rate (U) = 300 Kbpc => 0.3 MbPs

file Size (F) = 15 Ghits = 15000 Mbits.

* for client-server distoitation.

7= flo.s

30000

= 0.5 sec.

* Sor PZP distribution;

T = F/min(v, di)

= 15000 min(v, di)

= 15000 = 50000

M 2100

Server upload rate (Us) = 30 GHAS = 30,000 Mbps

Peer to Peer download rate (di) = 2 Mbps

Peer upload rate (U) = 700 Kbps = 0.7 Mbps

file Size (F) = 15 Gbits = 15000 Mbits.

* For Pap dithibution:

= 1000

Somer replaced rate (Ui) = 30 (17695 2 30000 Mbps

Pers download rate (di) = 2 Mbps

Peer aplaced rate (v) = 2 Mbps

Sile Size (f) = 15 Gbits = 15000 Mbits.

* todient - Server distribution.
T= f/v, = 1500/30000 = 0.5 (el.

* for P2P distribution.

728/Us = 15000/min(BZ) = 15000/2 = 7500 her.

12 - 1300 Sec.				
~	O	Cheuf Server (sec)	PZP (Sec)	
10	300 Maps	8.0	50,000	
10	20 MUPS	0.5	21, 429	
(0)	2 WP87	4.0	7500	
100	300 Khps	0.0	60000	
(00	700 KL695	2.0	21429	
100	2 mbps	2,0	2500	
1000	300 12 bps	2,0	Cocco	
1000	700 Rups	0.0	21429	
1000	2 Mbps	0°C	0625	