

Final Term

Submitted By:

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BS (SE)

Subject :

CCN

= Kha Afridi Page (1) 3071 21) halt. The N2200 .0 n 225 00.10.31/27 inthe first stage we have 00.10.255/27 N/n pul the sele itle famler N/n 2 \$ 25 2 8 So k is (8) 0.31.255/27 Infle and Stage we have & crassband ead size is 8x8c64 Spz 65,536 - 28,672 2 36,869. Inthe third , we have & crallband 2 8×25 2200 The total nuller of capitors 2KN+K(Nh)2 pltry whiles 2 2(8)(200) + 8(200/25)2 z 3,200+8(8)2 2 51200+8(8)2 2 3 2 Got 8 (84 = 3712.

The tabel uber of Gordeparts. Scrude is h (Nh) 1/2 Page2 velie pit n2 (20%)/2 2(100)/2 = 10 K221-1_ 22(25)-1 250-1=69 Cresport - 13 4NJ2N) KE-1] 24(200) [2(200)/2-17 2000 [(400) /2 - 17 2 800 [(909 -1 2800 [39] ~ 32.00 2

(13071) Hamza Khan Africh Paje (3) out of Sequence deling is permitted but at of sequence ACK is not when last frame is detected, NAK is sent If last frame is fast, then receiver daes nathing. Last ACK Handled The Save The evonume or last granes are retrasmitted while connect retralmitted while connect framel are received and buffered. The receiver while keeping track of sequence inween, buffens the frames in memory Send NACK for missing or damaged. The sender will sead retramitted. Padiet for NACK is received.

(13071) Hamza Khan Afride (4) page O_2 bit rate can be calculated Sal The al:-2×4000×16 = 128,000 = 128 Kbps Ay

se (5) (13071) Hanges Khan Afride 1 sp is grated a belock of address Starting with 10.100.10./0 Page (\$) Qu) 64 ISP - custorer 1: 10.100,10.0/25 10.100.10.0 to 10.100.63.255 - cretaer 128: 10-100.63-128/25 Grep 1-) e-1 = 10.100.10.0/20 Cmap 2- 10.100.10.0 12 10-100.127.0 c-128:10.100.127.128/25 e-1: 10.100.10.0/2# 10.100.10.0 TO Cmp 3-) 10.100.31.32 (-32: 10.100.31.255/27 Grap!" This grap customer need 128 addness. This mean that 7 (lags 128) bits are needed to defined each hast The prefix length is then 32-7=25 The ist customer: 10.100.10.925->10.100.10 .107/bs

Page (6) (13071) Hamza Khan Atrop 2nd customer : 10-100-10-127/25, 510-100.10.255/25 64th custarer: 10.100.63.128/25-710.100.63.255/253 Tatal = 64× 128 28,192. 125 128/21 address This means that 7(lags 128) Cmap 2; bits al needed to define each hast The Apelin leigth is 32-7-25 20 128/25 15t - Custao = 10.100. 6.0/25-710-100-10.127/25 9/2# 2nd - 11 = 10.100.10.10.10.10.10.255/25 1280 - Cutar = 10.100.127.128/25-> 10.100.127.255/25 55/27 Tetal = 128 + 128 2 16,384 28 128) alt 22 addres This meas that S lage 25 10.100.10 .127/5.5

Pase (7) 17 (18071) Hanza Khan Afridi al needed to define each halt. The prefix leepth is 32-52 27 -18 1st cuptomar 2 10.100.10.0/27-7 10.100.10.31/27 2nd 4. 2 10.100.10.32/27-7. 10.100.10.255/27 32 " 2 10.100.31.32/27-7 10.100.31.255/27 Tatal = 32 × 128 2 4096 Number of graded adduell Ispa 65,536 4 4 aldocated 11 4 - 28,672 4 4 available 4 4 - 36,869.

Khan Afriat pa Harriga [B07]] page (B) as Hetwork AP Douts AS, Q5 AS 2010 AP Data TRA why couto Scuta link leyer Method at Date Data 199 94 A/10 A P Date, Ta Riv Sender Lete EILISTO ATA DI 2 G any Racen AP bater To and w P D P/95 Brost A P Dart AT2 Lan 2 P F Dotte Flo 99/2) to nother network Parters Rentera 11/25 wh 799 N/33 ind 33 94 1A 10 Data T2 APDate 33 94 APDate Ta > Physical Adduss AP Data

page (9) (13071) Hanza Khan Afrid: 4 Africt as Al Enplanation :-Each device has a pair addustes (logical ad physical) Connection. In this case, each Corputer is connected to only one A/10 link ad therefore only one pair of addussel. Each ranter, however, is Connected to three networks. So each router had three pains of adduelles are for eac I connection. At the device (A/10) sender the coupler with physical, address (10) is the sender ad the computer with physical address (20) is the receiver; at the ranter whethe sender address is lad ad receiver is 33 Now at vouter 2 the sender adduess is (66) ad receiver is 95.