	Date:	CONTRACTOR OF THE PARTY OF THE
	NAME: ARUN (19K-1049) COURSE: COMPUTER NETWORKS SECTION: BSSE-5B	
	Chapter 3.4 Question 1 (a)	
(2)	designers use UDP over TCP: UDP is connectionless, therefore, no delay due to RTT. More clients can be serviced on UDP as compared to	
(3)(金)	ICP as no congestion combol is performed on UDP	
	Quebon 1 (b)	
	It is possible to have reliable data transfer on UDP: This could be achieved at application layer. One way of implementing is checksom Though, checksom is a work protection technique but implementing it reduces the threat factor on UDP Checksom is used with advantate general and rebansmission.	
	Pg No.	Sando

	Date:	
	Quastion 2 cas	
(3)	Voice and video applications use ICP and UDP due to the collowing reasons. TOP is reliable than UDP. No delay due to padeet loss. At It Most precult support TCP, therefore no data is blocked when transpord using TCP.	
	alrestion 2(b)	
	This atuation cannot be handled on UDP as there is no congestion control algorithm applied on it. However, TCP can do it by using any of the congestion control algorithm: one such usey is halving the transmission rate when a packet lose is delected. Other way of doing this, regardless of TCP and UDP, is applying congestion control at application layer.	
	Question 3 ca	
	Yes, both the segments would be directed to the same societ at host C as it is a UDP connection that C will differentiate between these through the IP addresser with the societs received as IP is	,
	assigned by the operating system.	
1		
Pg No.	Sand	dal

	Date:
0	
Qualion 6 (a)	dot
The sonds	nisson sport when a packet
be beduces its benen	nicion spend links link
loss is detected or when it	racha the maximum
capacity a when the link	is congested
Quadion 6 (b)	do identify deplicate/idensmilled does this by identifying the Therape, a sequence
Son	(1) identify deplicate inc
afficence number is used	10 haidentifying
ca packets Here tol3.0	does this of sequence
The section is a section of the sect	31.3
number is not required	here.
- ill repert	
Question 7(a)	
	acknowledgement for a
ince, a sender can recent	Lile corred window.
particle that calls out is	le its correct windows
	1 11 3 3 4 3 3 3 4 3
at to:	at 11
sender: send PH	Receiven ACK
Seld PD	N(lc)
send (72)	nclc3
at la t2.	The state of the s
Sender (Pineault): send Pt1	at 63.
send Pt2	Receiver ACKI
send Ff2	
4,011	nck3
at th	at ts:
sender receives acknowled	
sent at the anderson	
Pt-5, Pt-6.	sent at 13.
	These are outside its
	Linda.

	Date:
Sa	dean Rustin 9(G)
	4 1
	strated RTT. (1-0.125)*15 + (0.126)*20
	= 15.625 ms
C	eurit: (1-0.25)*1.9 + 0.25* (20-15.625)
	= 1.425+1.094
	= 2.52 ms
1	
-	270=16-625+ (4+2.52)
	= 25.73 26ms
	Question 9(b)
	oldian
	SICC /S/1
Ţ.	stimated RTT: (1-0.125)*25 + (0.125)*30
	= 21.875+ 3.75
	= 25.625ms
	DeuRIT: (1-0.20)+ 2.8 + (0.76)+(30-25.626)
	= 2.1 + 1.094
	= 3.2ms
	1270.25.625+ (4+3.2)
	= 38.42 38ms
	- 30 - 1 (30 (1)
Pg No.	Sandal

	Date:
	Question lo
	Beleveen 1-6 and 23-26 Beleveen 1-6 and 17-22
a	
b)	Triple duplicate ACK(Window size docrat diop)
0	Timeaut (Lundausize is diapped to 1)
(d)	32
(e)	21(42÷2)
(1)	13(26 = 2)
(g)	7th transmission round
(i)	The threshold and window size would be 418=2)
	18-20 MORA DE 918-2)
	Question 11
-	Problem 1.
-	no. of needed subreta 14
	no of needed usable byte. 14.
-	Network Aldiess. 192.10.10.0
	Address Class: C
	Default subset masks 255.255.255.0
-	Cudom Subnet made: 255.255.255.250
	(178+84+3)+16-240)
	Total no. of subadici 24 = 16
- Contract	Total no. of hat addiess: 21=16
	No. of excapleadiess: 16-2-14
	(1 fornekuark,
	No a life! I woodasting!
	No. of bik borioued. 4
Pg	No.

Date	
Problem 2:	
Na Of needed subnets: loca	_
Da chneeded subnets: 1000	_
Of Deedel who have	_
Metrork Addres 160, 100,0,0	
Address chas: B	
(cklom Subject mode 255 255 (120+64)	
Could subnet made 255,255,19) Could m Subnet made 255,255,19) Could m Subnet made 255,255,19 Tolial number of subnets 210 = 1024 Tolial number of subnets 210 = 1024	
Wimber or Grode addresses	-
Number of bithornaved: 10	_
	_
Roblem 3:	_
(1.10)	
Network Address, 143.75.0.0/26	_
THE TAGEST	_
Address Class, B	_
Depault subnet made: 255, 255.0.0	
Custom subjet mask: 255.255.255.192	
26-16-10=[123-643]+16+3+4+2+13[183+64	
Total no. of subnets: 210 =1024	
Totalno of host addresses: 26=64	
Total no. of usable addresses: 64-2=62	
	-
No. of bits borrowed: 10	
	_
	_
	_
	-
Pg No.	-

	Date:
	Question 12
	JPpol: 192 168.1.0/24(285.255.255.0)
	IP post: 192
(1)	Modern: Host required: SO
	Host addies: 26 = 64
	Bits available for subnetting. >
	subjects: 22 = 4
,	
	range:
	0-63. 19.16211 = 1921(2)
	(yber Safe: (192.168.1.129 - 192.168.1.191)
(1)	(yber Safe: 142-265 (142.166 1.183-192.168.1.264)
	Host required: 18
	Nost address: 26 = 64
	Bik available (ar subnolting)
	ENDUGES SE
*	G-B-(192-163-1-182-192-163,1-63)
	range:
	64-127=192.168.1.95-192.168.1.12.7 123-191.192.168.1.129-192.168.1.191) 192-255 (192.168.1.193 - 192.168.1.254)
(3)	CNSP-Zone:
	Host addies: 2° =128
	Bits available for subretting: 1
	Subnels: 21 =)
	Range:
	0-127 (192-168-1-1 - 192.168-1.127)
	Pg No. [] Sandal
	1910

Date: Question 13 Fregment's Offer Flag Total length Original Parket 1000+20 1000+20 Flag # 1 Frag# S Sandal Pg No.