	E7-GE
	LAIE
Middless Fuse Fill Sale	, , , , , , , , , , , , , , , , , , , ,
Midterm Exam- Fall 2010)	
Problem (1)	
and the state of t	
(1) 20-11-11-11-11-11-11-11-11-11-11-11-11-11	`
(1) provide an obstraction f	
we can change the protocol of	one layer without
changing protocols in other	layer
0 4 (8
(2) 10 c c c c c c c c c c c c c c c c c c	
(2) we can change The servi	ices offered by a
layer without changing the prot between peers in that layer	bozu elo) o
between peers in that layer	
,	
NATE Library Control of Mills of Control of	
Problem (2)	manufacture of the state of the Control of the state of t
(a) Physical layer	
, ,	×
(b) Transport layer layer L	()
Problem (3) At the Physical layer Packet 2 h; H	the size of the
Dacket & b. H	
rather 2 11, + 11	
The number of Parkets sent Per	Second
Cobusical Co	apacity (bondwidth)
Ck	7
X L M	
2 h; + M	
V mm 1	
229m to # - A 20 Albu boad of mess	ages Per second x message
5000 1011	\$136
seen by app.	., (1)
$\Rightarrow A = $	- XT/41 == EC
2 hi + M	- ger

Living and the same of the sam	oblem (4) Provide a real life example for each
<u> </u>) connection oriented. Ich, PPP, HOLC
p)	DL layer: Ethernet (SHA I CA, PPP, HO)
c)	Connectionless: UDP, IP V4/V6, Ethernet
d)	Error detection: Parity, CRC
e)	Point to multipoint: Ethernet
<i>5.)</i>	Transport layer: TCP, UDP
, LOP,	lem (5)
,	a) : 20 + 1 -5 => minimum = 5 correct 2 errors hamming distance
	7 C C
P)) I cont use m+r+1 <2° because it is for 1 en
	For each valid codeward, we have to reserve 1 Codeward for the CW itself
+	For each valid codeword, we have to reserve 1 codeword for the CW itself 1 invalid codewords Such that The distant between each invalid CW and valid CW 15"

PD719

	DATE
Protocol}	
Sender:	receiver:
nf = 0	Fe = o
from NL (4 buffer)	while (true) {
while (true) {	wait for event (event)
S. info = buffer	if (event = = frame arrival)
	100 Miles
5. seq = nf	from Physical layer (r)
To Physical layer (s)	if (r, seq = = fe)
Start timer (s. seq)	to network layer ()
wait-for-event (event)	fe = fe + 1
F (event = = from orrival) {	Cack = Fe 1
(if(rork == nf) {}	to Physical layer (1)
stop-timer()	1 3
Ut = Ut + 1	<u> </u>
from network layer (buffer)	
-131	> I don't need these
	statements because
3	the channel from Rx -> Tx is
	ideal so I need any
America Andread (INSTITUTE) TO A TOTAL CONTRACT OF THE STATE OF THE ST	ack from Rx >Tx
* *************************************	and Tx needs + check
	or Ack or what fram
	Cie Sender will always
·	eceive an Act
(c) No modification	
	to send a any time)
even if buffer is full, I wi	Il most
Ven 11 341 161 15 1004, J 901	The work of the second of the

1 900 + U669	ACK
1	
o tocal?	
Sender	receiver
NF=0	fe = o
hile (true) {	while (true) &
rom_NL(& buffer)	wait for event (event)
·S. seq = nf	from physical layer (r)
Sinfo - buffer	if r. seq = fe &
o-physical layer(s)	to_network_layer
f = nF + 1	fe = fe + 1 3
	3
) No modification	<i>D</i>