_ 1	Date:
CSF421- Computer Networks- SES	Jo you will - mysels tragues ? D
Lecture of - Protocols	
* Communication is done in layors. W	
* Fosters competition	- chaptaga2 = 1414
	loes not affect the other layer.
+ Each layer have defined function	
* Stondards - Denefits: (1) create+	maintain an opent competitive marte
	d greater compatibility + interoperability
categories: (1) De fac	
7	ure - OSI Model
* Protocale and Gordinglan indeponds	but. They describe what must be do
to communicate but not how it sh	and he carried out.
* OSI Model - [ISO organization]	
* OSI MORRIS DISCONZATION	
4. Application	ations -> Application (Specific Add
6. Prosentation Communic	ations ations
5. Session ( between	Application (Specific Additions)  ations  Transport (Port Address)
1.11444	·
3. Network	Internet (dogicala)
	rawdata , Network Access (Phys
1. Physical 3 across.	tax actions kil
The following Con much have and all	bA (1) - 2Mismurk
Headons-added to data for Eucapsulation	
- removed from data for Deca	
Proiler - added to data for Error I	deutification De lection
	H THE FIRST CONTRACTOR OF THE PARTY OF THE P
	human+data networks; provides
gopvices to the user Address - 2p	
	function: translation+ compression+
Description. Does not use protocol	uchronization. It handles exchange of
	reep them active + restart dissuppred
idle sessions.	AD

water.	
(1) Transport Layer - Derivery of message from process to	papiess Japon
to appr. (Sender to Receiver)	la Jeutaa L
Ex. DM from one discord to another	
PDU- Segments Hythy	
round row Protocol + oTCP+UDP report scars a modern	
Address-Port Number	
identifies processes appr	
- Functions - W Segmentation + Reassembly	
19601 41 (U) Port Address + Sequence Num	wer TCP
(U) Connection Control [3 way be suffer control	conjection
the bloom of Multiplexing I was but started	
Receiver uses the someint's sequence number	
sequentially. + merges them + sends to the up	
scal mathe stead <- Acate and I see	orl -A
D Network dayer - Host to host connection.	12 -2
troil tragano PDU-Packots tragano	rī .H
16) - Denote Protocof- IP Arouter	1 -8.
Address - 1P Address   dogical Address (s (32 bits)	(w)
Functions - (1) Adds an address (1P) to id	outily 8+R Host
(11) Decides which path to tal	• 1
noved to water to a preside time.	
1 Data Link Layer - Hop to Hop Delivery	ka - outlive)
PDU-Frames H2+Datat T2	4) 11
200	5 - SA - SA - SA
	00001440 3
Address - MAC Address   Physical Address (486its Hex)  Functions - (1) Framing	silatura d
Functions - (1) Framing	o lavesus
(1) Physical Addressing	A COLLARS TO THE
(1) How countrol	obra a fra
	10/233 401

Date:		
witte.	actives of exercise for	

(A) Planting And to the	The state of the s
(2) Physical dayer- Bit Stream -> movement of individual bits of	rom one u
to another transmit bits over a medium	
Functions - WPhysical features of interface	struction
an Representation of bits	
(III) Data Rate	
(IV) Synchronization of bits	
hopology-Buc, ring, stap.	
Gransnaission - U) simplex	
Kalque flat (11) 29DOM	
(III) Duplex (full)	
3 000 6	
7CP Encapsulation + PDV -	
Application -> Data PDU-Data	
Fransport -> TH+Data PDU-Segment	
Network Internet -> NH+TH+Data PDU-Packet	
cork & Datalink -> FH+ NH+TH+Data+ F- PDU-Frame	
ess ? Physical -> Bit stream PDV-Bits	
Addressing -	
Physical - timingt sync. bits	
Datakink - D+S physical addresses	
Network - D+S logical u	
Fransport - D+S port "	The state of the s
	The state of the s
Upper Layers - Encoded appr data Port Address	2 Fixed
MAC MAC IP IP P P 1/1/1 Data IP Address	2
D S S D S D MAC Address	3 As
James wat root - No Ino	
Same network - No hop	
Router - No. of Hands = No. of Netroorks	
Number of vouters = Number of hope.	