Computer Network - 2rd Assignment

Define congestion control & its mechanicam, Discuss me caus & the costs of its on various scenarios There are 3 approches for dealing with Tep's congestion control: They are:

D local Recovery. O local Recovery. - mese protocols recover from bit - errors. For Eg: ARQ protocol. in top sender Awarences of wireless links:

The sender and receiver must be awared the

constence of a wireless - link. - The sender and receiver must be to distinguish congestive losses occuring at winded notwork.

o congestive losses occuring at winders network.

- sender & reciver invoke congestion - control only in

recever invoke tongetion - control only in responsive to congestive wived network losses (ii) Split connection: end point are broken into a connections one connection from the mobile host to the wireless accesses o Another connection from the wineless acress point to the other end point. © Compare link state & distance vectors mouting protocol

->	Distance Protocol. l'int state protoco!
	entine nouting table is oupdates are incremented &
23075	send as an update entire routing, table is not
	sent as update.
Anian	· Distance vector proteol serd. · Update are briggered not
	periodic update at every 30 periodicolly
	to 90 second.
FEFF	· updates are brodeasted · update are multicasted
	prone to routing loops. la no routing loops
	o updates are send to entire update are sent to entire
128	directly connected, network & to just
	· Each node talke to only o Each node talks with
d 250	its directly connected. all other nodes
	neighours.
	condense for contract of the contract of the contract release
3	Define congestion control & its mechanisms Discusses the
13	cause and the costs of its on various scenomics:
3 - 3	A state occurry in network layer when the menage
	traffic is to heavy that its shows down network response
	traffic is to heavy that its shows down network response time, As delay increases, performance decreases. To stop. This state from occaving congetion control is implemented
into lo	This state from occaring congerion control is implemented
	rasidorens is oriented and they be
2500 6	O senovio: Two senders, a routair with infinite buffer . 2.
	host A &B have a connection that share a single hope
	between source & destination
	- as the sending rate approches the average delay &
	becomes large & Carger.
	@ scenaro 2: Two sendors, a router with finete buffers
	-> unnated refrememinions by the sender in the face
	of large delay may cause a router to use its

link bandwidth to forward unseral copies of a packet 3) scenario 3:- four sender, routers with finite buffers e cohen a packet is dropped along a path, the transmission capacity that was used at each of the upstream routers to forward that packet to the point of which it is dropped and up having been washed Define the working principle of BGR. Illustrate intra & intercommunication in A.S: o Border gatuay protocal is a strantarubized exterior gateway protocol designed to exchange routing and reachability information among autonomous system on the Internet. - Intra - Ar Routing Protocal · The Rowling algorithm summing within an outcomous system is called intra As routing protocol. · All nowlingors within the same as must run the same intra as nouting protocal for Ey: RIP and as PF. Inter - As Roudiny prodocal The Rowing algorithm running between 2 Autonomy system called inter As Rowing protocol.

or gatusay routers are used to connect As to each other - galeway router are suspensible for foswarding packets to destinations outside the As.

(3)	Different IPV6 and IPV6? how mapping is causied out in		
	Jameling !		
->	Janniting:	IPV6	
	ozpuk is a 32 bit IP. address	. IPV6 in 128 bit IR address	
	o number of header fields is 12	· number of hooter fields is 8	
	· has checksom fields	· does not have checksum fields	
	· Irv 4 offer five different	" true allows storry on	
	classes of IP address class	unlimited number of 2P	
	A to E	addrus	
	·SNIMP protocol used for	o SMMP dou not supposed	
	system management.	1 PV6.	
	I STATE OF THE PARTY OF THE PAR		
	Tunneling:		
	e on the sending side of	the tunnel:	
	-> Ipuf node B takes and	puts the IPU6 datagram	
	in the data field of a	IPV4 data grom	
	- The IPVH datagram	i addressed to the IPUG.	
	in the data field of a IPV4 data grom The IPV4 datagram is addressed to the IPV6. node E		
	on the receiving side of tonnel		
	- Receivers the IPIA	datagram	
	-> Extracts the IPV6	datagram from the data	
	field of the IP44 datagram.		
	-> Receivers the IPM datagram -> Extracts the IPM6 datagram from the data field of the IPM4 datagram. -> routes the IPM6 datagram to IPM6 node of.		
	Museleng a Resolution	A Maria Mari	
No.	W Carl American Carl Beautiful	action and the second second	