Assignment - II

BI) short notes:

frame relay is a protocof that defines how frames are rooted through a fast packet network based on the address field in the frame.

reliability of data communications networks to minimize the error checking done by the network nodes. This provides a backet-switching protocol similar to, but much faster than, X.25.

Dynamic Host Configoration Protocol.).

Dynamic Host Configoration is a network
management protocal used to automate the
process of configuration devices on IP network.

thus allowing them to use network service such
as DNS, NTP, and any communication protocol
based on UDP or TCP. A DHCP server
dynamically assigns an IP address and other
network configurations parameters to each
device on a network so they can communication
with other IP networks.

C) NAT

Not stands for network address translation. It's a way to make multiple local poirate addresses to a public one before transferring the information. Organizations that wont multiple device to employ a single IP address use NAT, as do most home nowters.

d) Congestion control: A network is a shared entity used by multiple parties in a collaborative manner. However, a few faulty or unverified network Users (data senders) can cause congestive collapse where the quality of service is so degraded that it prevents or limits ony useful communication Longestion control is a mechanism that controls the entry of data packets into the network, enabling a better use of a shared network infrastructure and airiding Congestive collapse. Congestive-Broidence Algorithm (CDA) are implemented at the TCP layer as the methanism to avoid congestive collapse in a metwork

(82) a) I stoppand wait protocol:

The sendes sends and packet and waits for the acknowledgement of the packet.

Once the ACK reaches the senders, it transmits the next packet in a row.

If the acknowledgement is not received, it re-transmits the previous packets again.

1) Go Back 10 pootocol:

The sender sends N packets which is equal to the coindow size. Once the entire window is sent, the sender then waits for a comulative acknowledgement to send more packets. On the receiver end, it receives only in-order packets and discards out-of-order packets. As in case of packet loss, the entire window would be re-bansmitted.

The sender sends packets of window size N and the receiver acknowledges all packets whether they were received in order or not. In this case, the received in order or buffer to contain out-of-order packets and sorter them. The senders selectively re-transmits the lost backet and mores the window foowerd.

Tom is the channelization protocol in which bandwidth of channel is divided into various stations on the time basis.

There is a time slot given to each station, the station can transmit data during that time slot only.

FOM is a type of channelization protocol. In this band width is divided into voring frequency bands. Each station is allocated with band to send data and that band is reserved for particular station for all the time cohich is

In CDM, all the Stations can transmit data simultaneously. It allows each station to transmit data over the entire frequency all the time.

Multiple simultaneous transmissions are seperated by unique code sequence.

Each user is assigned with a nique code sequence.

- 1) CSMA/CD is effective after a collision
- 11) Csmala is used in wird networks.
- III) It only reduces the recovery time
- (conflict occurs

CSMA/CA

is effective before a collision.

is commonly used in wireless Unetworks.

whereas CSMA/c.
minimize the possiblety
of collision.

Whereas CSMA/CA will first transmit the intent to send the data transmission.

Moltiplexing and Demoltiplexing:—

Chathering data from multiple application processes

Of the sender, enveloping that data with a

header, and sending them as a whole to the

intended receiver is called multiplexing.

Where as Delivering received segments at the

receiver sider to the correct app layer processes

is called demultiplexing.