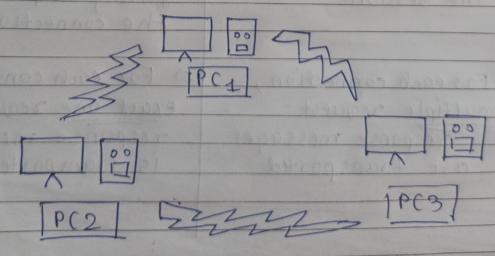
190CS098 Following are Socket Primitives of Transport Layer: (1) SOCKET (2) BIND (3) LISTEN (4) CONNECT (5) CLOSE (6) ACCEPT (7) SEND (8) RECEIVE Ans-18) Anad-hoc network is one that is spontaneously formed when devices connect and communicate with each other. Ad hocs networks are mostly wireless local area networks. Diagram:



19005098

Ans-(9) CA) SMIP =) 8+ands for : Post 2) Stands for: Office Protocol- vession 3 simple mail Transfex Protocol =) It is a simple It is a simple ASCII message access protocol Protocol >) works on Post Works on Port Number: Ito Number: 25 Ans- (9) (B) HITP with non-HTTP with Persistant Persistant Connection connection => Send a connection It uses same request and after connection throughout getting response close the session. the connection => For each connection, =) For each connection, exact one reavest multiple request response message response messages is transported are transported

Ans- (9)(0)

Upward multiplexing

address is available
on host, then; all
the transport connections
have to use it. When a
TOPU comes in, a
way is needed to tell
which process to give
if to; such situation
is called upward
multiplexing

Downward multiplexing

more bandwidth

than one virtual

circuit can provide

to it; a solutionis

to open multiple

network connections

and distribute the

traffic on round
robin basis, such is

downward multiple exing

Ans- (10)

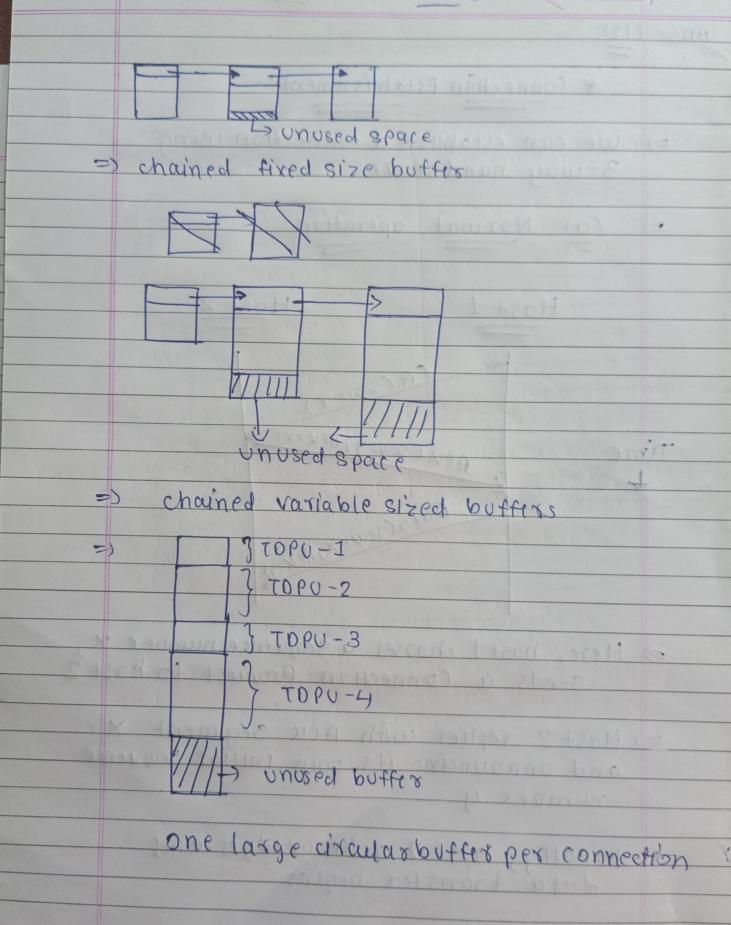
- Ans-(11) In many scenarios, the speed at

 which the sender sends the data is

 not equal to the speed of receiver,

 receiving data.
 - e) In many cases, the speed of sender is
 greater than that of receiver which can
 lead to data lose.
 - => 30, a flow control mechanism is required which can keep an eye on the situation and can rectify the issue.

- we can tell, that flow control is
 required for slowing down of sender
 system to match the receiver system
 side butter size so the packets are
 not lost.
- >) Flow control adjust the rate of flow of packets in an intelligent way.
- =) Buffer, is a region of memory which is used to temporarily store the data while it is being moved from one location to Another
- Dy communicating processes reside in a temporary where.
- There are 3 types of buffers used in transport layer:
 - (1) Chained fixed size buffers
 - (2) Chained variable sized buffers
 - (3) One large circular baffer per -



Callicator

Paga No.

Ans- (12)

* Connection Establishment >-

3-way hand shake.

(a) Normal operation

Time

ACK (Sears)

ACK (Sears)

ACK (Sears)

- 3) Here, host 1 chooses a sequence number x, sends a Connection Rewiest to host 2
- => Host 2 replies with ACK segment X and announcing its own initial seavence number y.
- => Finally, host I acknowledges and data transfer begins

(E)

(b) Old duplicate connection reguest Host 2 Host 1 CR (Secusion) ACKISEW= 4 (ACK=X) Reseat CACKEY) Segment at nost 2. arrives without host 1's knowledge. => host2 acknowledges and sends the seagence number y. =) host 1 rejects the host 2's attempt to establish connection. * Connection Release: 2 types > (1) Asymmetric (2) Symmetric (1) Asymmetric: - > If I user wants to disconnect - connection gets disconnected

