(1) Comma N/w:-Set of equipment & facilities that provide a dervice; transfer of informat between geographically departed wer.

> EG: Telephone, computer, internet, cellulai, mebile, broadcarling.

Comm' n/w are like other utility systems such as dectricity, water, transport of power.

2) FUNCTIONS OF COMMN N/W? - WING

(a) CONNECTIVITY: Needs to provide conn blusouice & dut. Conn is provided through mire, cables, opticlibre

6) SWITCHING: Transfu of info blu transmission lines For n noder, we need not lines -Acces from Lines be first level switch = access now

@ MULTIPLEXER: Concentrate of multiple flows / traffic into a hunk.

(d) ROUTING: Determine, the path that informat will flow from source to de tration

(e) ADDRESSING: Used to identify we (some (data)) Identifies which now ip is connected to which ofp. -> Types of Hadraing? have be would .

Hierarchial: User geog. loch info that helps nowing.
Flat: Down't we lock info: LAN
used when no of nodes are smaller.

F) TRAFFIC . To is necessary to ensure smooth CONTROL flow of info through nlw.

To is done by buffers.

Eg: In transport we have stopsigns, in comm we have switcher by Buffers.

(3) CONGESTION & OVERLOAD WATROL:-Congest occus as a result of traffic surge or equipment failure, nlw should apply coc to ensue continued of in no Info haffic must be rerouted a presunted from entuing now

(B) NETWORK MAMT: It provides no maintain, By parformance montering, fault detect & recovery, tonfig n/w resource, billing, providing deanity, etc.

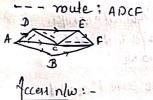
CIRCUIT SWITCHING

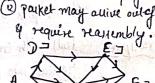
- 1 Declicated bandwidth
- (2) Call setup delay
- (3) Conn accented
- 4) flouting is done during callsolup
- (5) nodes maintain table that show how to route each conn"

Orlin Fixed transf-delay

( Link fail is difficult to handle

- Onlo outhead
- @ Suitable for Streaminfo: Voice
- ( Blocking: new calls are blocked I blu is occupied
- @ Informato autiver at deet





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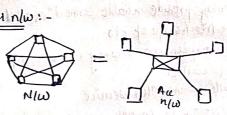
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PACKET SWITCHING

- O fixed blue
- @ No call setup
  - (3) Connect h last
  - @ Done on packet by packed basi
  - @ Routing table should be maintained.
  - @ Random packet delay (variable
  - (7) Robut against failure
  - (3) Parket header is ownhead that natures trans-efficiency
  - Tor bushy haffic: data
  - (1) Nonblock: new blocks calls one aldready admitted.
- (i) Add process for packet route. Packet are moved hop by hop.
- (2) Parket may arive outofisequence