(x) Packet flow:

(a) Ingress Packet Perocessing:

it contains enough intormetion for route working after encapsulation.

I This packet is sout to forwarding engine in the line and.

to determine next hop.

-) The next hop into containe egress him earl and the

or On completion of other functions, this packet is sent to

the backplane interface

-) It contains into. That helps the keepplane interface to figure out to women interface and it is to be sent in the schedules the packet for transmission.

(b) Forex Packet Processing:

interface aboves it in the manory.

rew memory location and sent to the buffer queue.

-) In the buffer quote, the packets are transmitted out

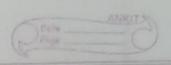
of the queue a wording to their prior tips.

the queue manager drops the packet with low priority

-s finally the packet arrives at the new juterface and

then the TTL value and chockens is updated.

- Packet is transferred to appropriate Port.



(w). Packet Processing.

The tasks performed by the router can be divided into:
(a). Time Critical
(b). Non time Critical

processing & forwarding.

Header processing includes validation of packets, TTL,

checksum calculation, etc.

Non-time critical: Maintanance, Management, Error Handling.

Time critical operations must have High priority

Packets - (Pu (route bokup) - 1 destination

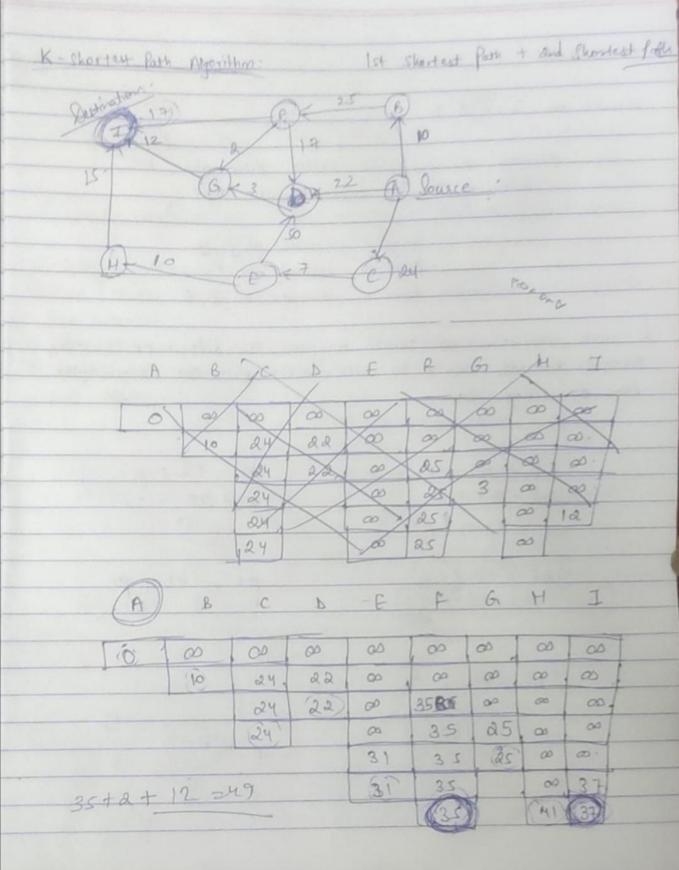
fast Path functions Include: Header processing
facket forwarding
Packet Classification
Packet Quening & Scheduling

Slow Poth Func: ARP processing fragmentation
Keassembly

Advanced IP processing

given more priority.

(x) widest Parks Algo: 2 approaches: D. Extension of Dij ketra D. Extension of Bellman ford.



Nested Loops:	
Storate on I, G, D, A	
3	
Storate ou reachable nod	les dunes and
bolowing to the charton	+ polls ilens
belonging to the charters	Turn Ittely.
from y iter	
from G, iter	
nom B, Ite:	rate on F, E.
In each iteration, we should compute therest distance from A to both we adde connecting them. AF - AI + FI 35-37+15 -2+17=(5) AF - AG (FG) 35-25+2 (12)	AH - AI + HI DELE 20 41-37+15 E19 AF - AD + PD S5 - 22 + PF = 40
AF -AD + ED 31 - A2 + 50	A F -1 G - 12 3 C + (12) + 12

CA

Eg: Stride length =3 Profix botalare. pode 1 PI Root Nade PZ 1 * Norde 3 000 00* 001 P4 1014 010 1110 011 10 00 × 100 110 node 2 Comparision Hultibit Porter Stevides -> en exists you multipit teries (compuession algo reduce the no. of revels. - 9 1 storage space

