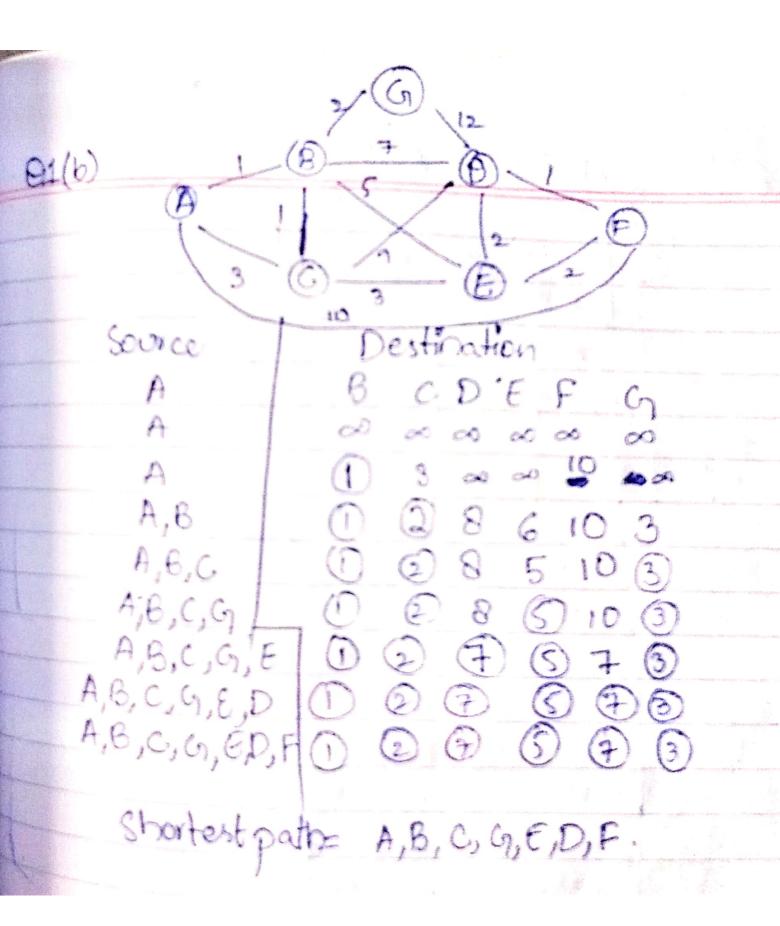
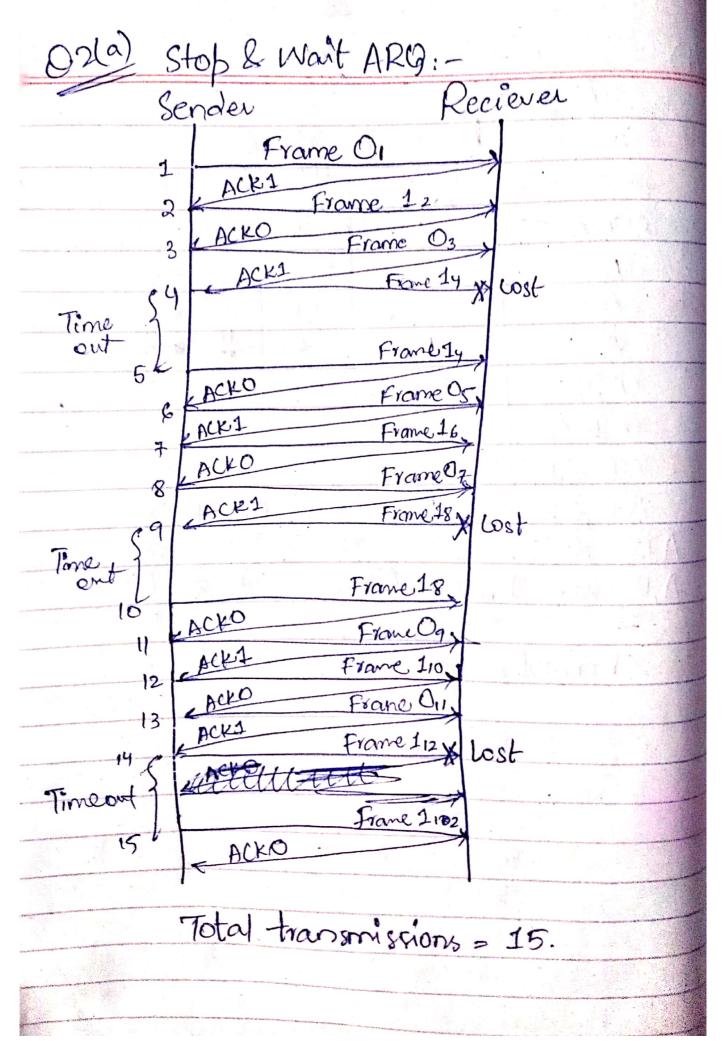
CON Part Paper 2021

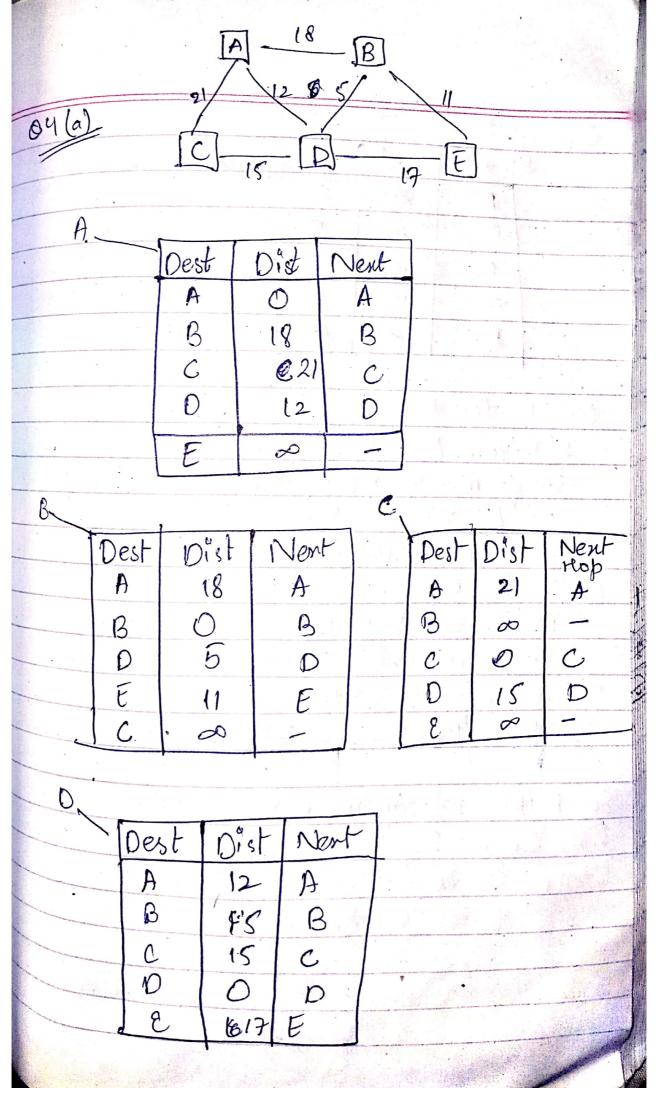
160.20.10.0 (Class B) · Network 1 = 58 Network 2 - 30 Network3 = 30 Network addres = ? Broad cart Addres = ? No. of host =? change =? Sols Performing using VLSM. Borrow 10 bits 160-20-10-0/26 160-20-10-0/26 3 Network bits = 26. Host bit = 6 210 = 2048 (subnets) 26 = 64 (Range of each subnet)
Subnets: 160.20.10.0/26 - 160.20.10.63/26 Total valid host = 64-2 = 62 Brood Estada. Network address. $Kange = 2^6 = 64$ Network 1 needs 58 iBs 60 use this network. 160.20.6110.64/26-160.20.10.127/624 Broadcastadds .. Network add I Total valid Host = 64-2=62 Futher subnetting this network

Range = 2 = Gy.

i) 160·20·10·64/27 - 160·20·10·95/27				
The state of the s				
Network Add. \$6000 cost 000.				
Total valid host = $2^{5} - 2 = 32 - 2 = 30$				
Network 2 = 30				
Network $a = 50$ So Network 2 use this network. Range = $a^5 = 32$.				
Range = $a^3 = 3a$.				
:: \ 160.20.10.96/27 - 160.20.10.127/27				
nist only man				
Total valid host = $2^{5}-2=32-2=30$				
Network 3 = 30				
80 Network 3 use this network.				
Range = 25 = 302				
O3(a) 11000110				
1010100				
00110110				
01000001				
00011000				
2rd				
Le MSB changes so,				
(1000) 11 6 since exect				
10 10 100 1 is identified softwill				
oo i o conected				
01001000 1) and data				
0001/100 Di cosso c Hu.				







	Application of the state of the				
S. A.	Dest	Dist	Nent		
	B	Ø			
	В	11 -	B		
	C	00	-		
	D	17	D		
	t	-0	E		
- 1	AND THE PROPERTY OF THE PARTY O	The second second	Car And Control September 1867 September 1867		

On Router B.

Dist from A is 18

So from Router E to \$4

E -> B -> A

Dist = 11 + 18 = 29

On Router O

Dist from A is 12

So from Router E -> A

E -> D -> A

Dist = .17 + 12 = 29

So E (Router) can reach vouler A via both Router B or Router D. because distance is same.

On Router B 5-Dist from G is so So Router E cannot reach Router C via Router B.

Ch Router D:_

Dist from C is 15

so Router E to C E
ightarrow D
ightarrow CDist = 17 + 15 = 32

So Router E can reach router & via vouter

Routing Table on E:-

Dest Dist Neut

A 29 B

B II B

C 32 D

D 17 D

03(b) Data = 100), Data trobasser Data bit = 4 (n, k)Ky K3 K2 R3 K, R2 R 2 >Attk17 > 4+7 Ri= ki @ ks D kg 23> 4+3 P1=10001 8)7 8=3, k=4, n=4 R= K, & k& D by 1001 R= 10001 Kyk, K, Ke, L(Ra=0) Data bit 1001 Redundant bit position R3 = K20 K30 ky R3 = OD OD 1 20= 1 R3=1 21=2 22 = 4 Now from MSB 30d bit has ever so, K3 has ever. 1001100 R, = K, D K2 D K4 = 10 OF 1 = 0 R2 = K, O k3 O k4 = 10 101 = 1 P3 = K2 € k3 € ky = O € 1 € 1 = O P2R R3 are wrong so k3 has error; and correct it to get correct data.

Pastpaper				
Sol: Total Data = 2500 byte				
MTU = 550 byte				
Identification Number = 380				
1HL=1001 = 9x4=36bytes				
Total data = 36 byte + 2464				
header dorta				
MTV = 36 byte + 514				
	<u>) haqii</u>			
2464 - 4.7 5 1 t.				
2464 = 4.7 = 5 fragments.	- 12			
F5 Fy F3 F2	A			
408 514	514			
36	36			
MF = 0 FO = 257 192.75 100.5 514	MF=1			
FO= 257 192.75 128.5 514_	F0=0			
64.25				
514 x 4 = 2056				
- 2464				
408				
Identification Number will ren	rain sant			