The distances of every wode from the given source as per the problem statement

de	A	B	2	, , ,	state
d[v]	0	001	00	00	100
V [N]	A	7-	-	-	

- As per the Dijkshas Algerithm It (B necessary to visit ende with minimum distance.

- By orthogong the above texte we come to know A & the node coith shanest dustance

F - Fdentify neighborers of mode A R, add A to solution
$$S = SA3$$

$$V = {C3}$$

- het as calculate the distance

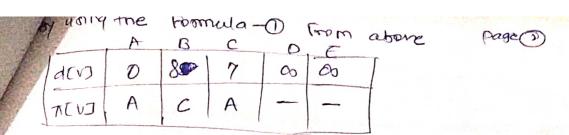
- It [0> 0+7] § 'd[c] ← 0+7

3 TECJ ←A

80 apo	atec	d tee	ne c	BD	E
[dCV]	0	00	7	00	00
TEVJ	A	<u> </u>	A	-	-

Next scan the truthe e identify the mode with minimum value cada to solution except A which to writed earlies

$$S = \{A,C\}$$
 $V = \{B,E\}$



Next roole to be united & B because ALC already visited & B & having min

By acros for formula - To for above

,	A	B	C	D	E
(dtv)	0	8	7	00	2
ntva	A	C	A		C

Next mode to be selected & B because ARC already visited (& node B (harmy min. distance among B, D, E

No charge és me distance os A (s abready who the

Now next node coin minimum distance (p E

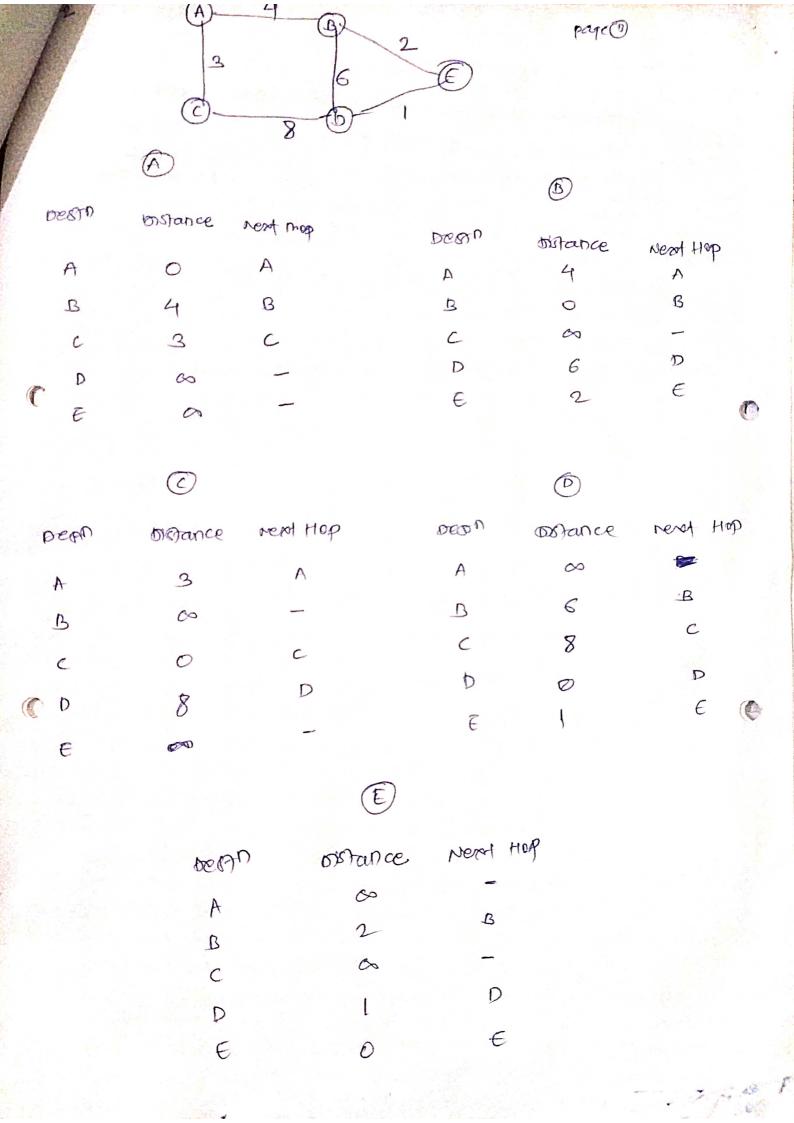
Now next node remains en me table 6 D

S={ A, C, B, E, D} V={B,C} No change wia BriaD.

No change in C via D.

81. Possible snowed parties are from A

ALA BECHA CEA DEELCEA EECEA



€ FramB = min [2+0, 1+6, on + 13 = 2 rig € con at reading

begn	brotance	Next Hos
A	4	A
B	0	B
С	7	,
D	3	€
E	2	E

con of reaching A Bon D = min £ 4+6, 3+8, 00+13=10 via B cost of acaspual B from D =min {6+0, 2+1, 00+8}=3 n'a E cost of reaching c from D =min {6+00,8+0,00+13=8via C Coof of reaching & Frem D = min { 1+0, 2+6, 00+83 = L via E

updated (B)

Pag e(4)

Dean	pristance	ward Lich
	10	B
A	10	ϵ
B	3	
C	g	
D	0	D
	1	E
	•	



: B.Tech Stream

Semester

Data Communication and Networks Lab

Department

: COMPUTER SCIENCE AND ENGINEERING

Signature

Section

Division B

Course Code

: UCSE0332

: 25 Max IA Marks

Semester Data Communication					IOE	Total	Signatur
Course Name	The second second	Roll No	EXP	IPE	3.00	15.00	-
Batch Name	PRN	SYB41	9.00	3.00	Commission of Street, or other Designation of the last	16.00	
Student Name	1920000420	- Commence of the Commence of	9.00	3.00	4,00	19.56	
PATIL PRATHAMESH SANUAY	1920000426	SYB42	12.56	3.00	4.00	20.56	
SHETTI ANANYA RAVI	1920000428	SYB43	12.56	4.00	4.00	-	
SHORPADE YASH MAHESH	1920000431	SYB44		3.00	4.00	19.56	
CHOUGULE SARVESH ABHUIT	1920000436	SYB45	12.56	4.00	4.00	17.67	
LADGE UTKARSH SANTOSH	1920000444	SYB46	9.67	3.00	4.00	17.89	
BAGE TUSHAR SANJAY	1920000462	SYB47	10.89	2.00	3.00	14.00	
BAGE TUSHAR SUND SURYAVANSHI PRANJALI PRASHANT	1920000482	SYB48	9.00		4.00	20.56	
PATIL SHREYAS SAMBHAJI	1920000498	SYB49	12.56	4.00	4.00	21.11	
HUJARE VIVEK VIJAY	1920000507	SYB50	12.11	5.00	4.00	20.56	
PATIL RAJ IRGONDA		SYB51	12.56	4.00		16.67	
PATIL DIPALI KRISHNA	1920000516	SYB52	10.67	3.00	3.00	17.00	
AMTE SMRUTI SANJAY	1920000540	SYB53	9.00	4.00	4.00		-
KILLEDAR ABHISHEK DATTATRAY	1920000599	SYB54	9.00	3.00	4.00	16.00	
HEGDE SIDDHANTH RAJENDRA	1920000616	SYB55	10.33	3.00	4.00	17.33	
HEGDE SIDSTANDER OF THE STANDARD CONTROL OF THE STANDA	1920000634	SYB56	9.33	4.00	4.00	17.33	
PAWAR AKASH BHAGWAN	1920000637	-	10.89	2.00	4.00	16.89	
OTAKE VIPUL DIPAK	1920000654	SYB57	12.67	2.00	2.00	16.67	
THAKUR KHUSHBOO RAVAIL SINGH	1920000674	SYB58	12.67	3.00	3.00	18.67	
MASTI SMITA SURESH	1920000692	SYB59		2.00	4.00	17.89	
DHONDUGADE SAMRUDDHI RAMCHANDRA	1920000707	SYB60	11.89	2.00			

updated (E)

cost of reading A from E = min (4+2, 00+13=6 via B cost of recolving B from Exmin { 2+0} e+13=2 via cont d'reading c from E=min { 00+2, 8+13=9 via cos of realling o from E=min { 1+0, 6+23=1 via Next Destr bistance

Verified By: Page 1/1

A

B 6 B Head of Department: Date: 20-Dec-2020 02:07:05 0 0

site Address Fer TCS 192-168,98.0

rage (5)

class of IP address (B class C

, Default mank for class C IP address @ 285, 285, 285. 0

> Binary equivalent of default mage 6

Net 2D + HOTED + HOTED

-) As per the orgainement is subnet are required on to hulksue the repuirement it to necessary to borrow 2 bits from HOST 70 past

> 80 the subnet mask becomes

Netzo HOAZD

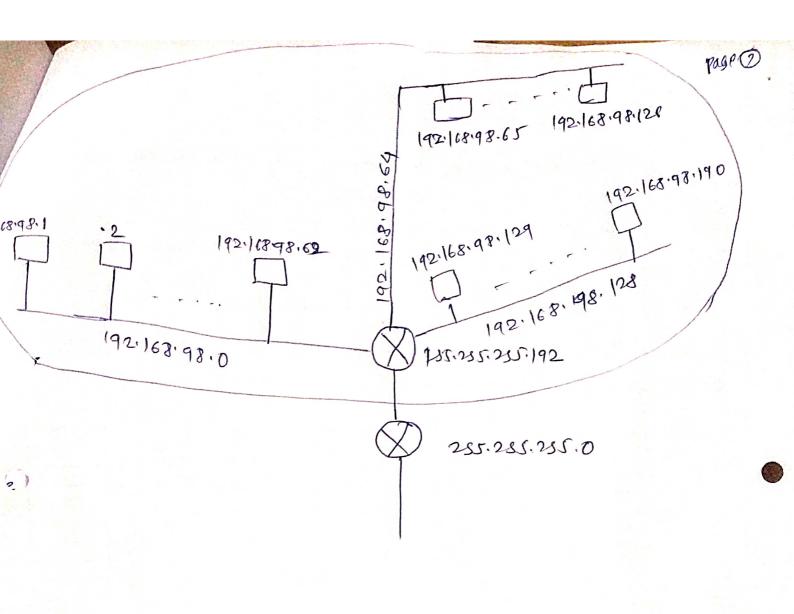
· 255. 255. 255. 192

+ Buck size of subnect = 256-192 = 64-2=62 Hosts in every subnet coe can connect

7 Sibnets are

Subnet Add 192.168.98.0 192.168.98.64 192.168.98.192 192.168.98.192 192.168.98.193 192.168.98.2 192.168.98.2

Last JP 192.168.98.62 192.168.98.126 192.168.98.100 192.168.98.254 Boodcast Ald 192.168.98.63 192.168.98.127 192.168.98.191 192.168.98.285



Solve Call (